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Federal Aviation
Administration





November 30, 1997 - December 6, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- II Domestic Service Difficulty Report
- III International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

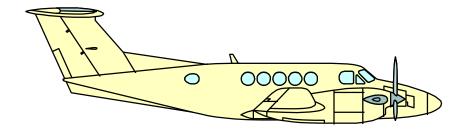
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2150	200NY	ВЕЕСН				HOSE	MISINSTALLED	5	10/31/97
	BC25	A200					AIR COND		97ZZZX4935
*****	TEMPERATURE RI STRONG OIL SMEI IN CENTER OF EV	ESULTED IN A LOUD P LL UPSET OCCUPANTS	OP OR BANG THOUG E. EMERGENCY DECI R INVEST FND AIR CO	HT TO BE RAPID DEC LARED. UNEVENTFU OND SUCTION AND D	COMPRESSURIZATI JL LANDING ACCOM	L WAS ON 'AUTO MODE'. (ON. A MIST FORMED IN T MPLISHED. FWD EVAPOR NSTALLED REVERSED WE	HE CABIN, SMOKE ISS ATOR FOUND RUPTUR	UED FROM C ED IN CAPIL	VERHEAD VENTS, AND LARY/COOLING FIN AREA
7921	7288D	BEECH				OIL COOLER	LEAKING	6	11/17/97
TE1R	P81	B60				LW10025	ENGINE OIL		97ZZZX4955
****	COOLER NR 2 WA	S INSTALLED AND DE	VELOPED A LEAK AF	FTER 2 HRS. THE NR	2 OIL COOLER WAS	T 2426.8 HOURS. THIS OIL CUT IN TWO TO SEE IF TI UNIT WAS REPLACED WIT	HE CAUSE OF THE LEA		TER ABOUT 6 HOURS. OIL E DETERMINED. FOUND
6520	73953	BELL				CASE	CORRODED	2292	11/16/97
	2866	47G2A1			476400751	4764521215	T/R GEARBOX	831	97ZZZX4933
****						G, PULLED THE GUARD OU H MAGNESIUM HOUSING			FERTILIZER PACKED INTO EEPING THE OIL FROM
2710	4952E	CESSNA				CABLE	FRAYED	1573	10/24/97
	18503918	185F				0510105322	AILERON		97ZZX4889
****	` '	E TREATMENT FORME				EATED INTERNALLY WITH OK OK. CLEANING CABLI			
6114		CESSNA		MCAULY		HUB	CRACKED	800	8/5/97
	18802473T	A188B		D2A34C98		C98	NR 1 SOCKET		97ZZZX4873
****	PROPELLER IN FO OUTSIDE.	OR RESEAL AND A CRA	CK WAS FOUND IN T	THE BLADE RETENTI	ON THREADS OF N	R 1 HUB SOCKET. THE CR	ACK HAD NOT YET GO	ONE THROUG	H THE HUB TO THE
6114	2543S	CESSNA		MCAULY		HUB	CRACKED		11/11/97
	3370843	337C		D2AF34C61		D4885C61	NR 2 SOCKET		97ZZZX4868
****		OUND IN THE REAR OF 3 YEARS SINCE LAST					AGGED AND RETIRED	FROM SERVI	CE. THE PROPELLER HAD
2750	31DB	CESSNA				PULLEY	FAILED		10/10/97
	4010202	401					FLAP		97ZZZX4887
****	BATTERY ACID LI		N DRAIN LINE. WHE	N BEARING FROZE, I		AND AFT OF BATTERY BO ROM PULLEY AND PULLEY			
5541	387HA	CESSNA				RIB	CRACKED	5921	11/17/97
SI6R	0465	550				55331160	RUDDER		97ZZZX4966
****				- ',		CRACKED ACROSS THE E D THE ATTACHING RUDD!		RIB. THE DA	MAGE TO THE RIB WAS A

GENERAL	AVIATION SIGN	IFICANT OCCURE	RENCE REPORT (cont'd)			11/30/97 To	o 12/6/97 I	SSUE: 97-49	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CON	
2810	5027P	HUGHES				TANK	COLLAPSED	2	11/16/97	
LS1R	611002D	369D				37510007	AUX FUEL		97ZZZX4970)
****						INVESTIGATION, FOUND BY THE MANUFACTURER				DPIPE
6111	21CJ	MTSBSI		HARTZL		CLAMP	CRACKED	4642	10/29/97	
	789SA	MU2B60		HCB4TN5		C1301	PROP NR 4 BLADE	2493	97ZZX4894	1
****	INSPECTION REPOR	T CONDUCTED BY HA	RTZELL PROPELLER	INC., REVEALED CI	RACK IN PROPELLER	BLADE CLAMP. SUSPECT	CAUSE OF CRACK DU	JE TO FATIGU	JE.	
7160	1458C	PIPER				HOSE	FAILED		11/1/97	
	182657	PA18135					ENGINE INDUCT		97ZZZX4958	3
****	CHAMBERS. THE S TO 250 RPM'S AT FU	WELLED LINING THAT	T REMAINED SWELLI ROBLEM WAS HARD	ED OUT ENOUGH TO	O OBSTRUCT FLOW (EIRCUMFERENCE. SOME L CAUSING THE ENGINE TO I ULD SHRINK BACK WHEN	RUN ROUGH AT HIGH	THROTTLE S	SETTINGS AND	LOSE 200
3213	38KC	PIPER				HOUSING	CRACKED		11/11/97	-
	318352033	PA31350				40327000	RT MLG		97ZZX4888	3
****		N LANDING GEAR HOU BELOW CASTING MAR			UNDER CLAMP WHIC	CH ATTACHED BRAKE LINI	E GUARD TO HOUSING	G. CRACK WA	S APPROXIMA	ΓELY 1

(End of GENERAL AVIATION SIGNIFICANT OCCURRENCE REPORT)

Run Date: 11-Dec-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 11/30/97 To 12/6/97

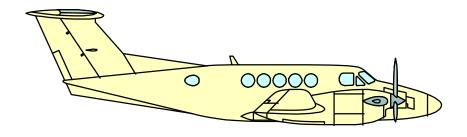
PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
0510105322				·		·							
CABLE	185F	1	-	-	-	-	-	-	-	-	-	-	1
	A185F	2							1	1			
TOTAL of # 05101053	22	3	-	-	-	-	-	-	1	1	-	-	1
215081505													
DUCT BLEED AIR	CL600*	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 21508150	5	1											1
30A1102													
LPT DISK	60LEAR	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 30A1102		1											1
37510007													
TANK	369D	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 37510007		1											1
40327000													
HOUSING	PA31350	1	-	-	-	-	-	-	-	-	-	-	1
TTD LIN II (O.).	D 4 21250	_											
TRUNNION	PA31350	1							1				
TOTAL of # 40327000		2	-	-	-	-	-	-	1	-	-	-	1
4764521215													
CASE	47G2A1	1											1
TOTAL of # 47645212	15	1	-	-	-	-	-	-	-	-	-	-	1
55331160													
RIB	550	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 55331160		1											1
67184													
GASKET	31A	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 67184		1	-	-	-	-	-	-		-	-		1

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 11/30/97 To 12/6/97 (cont'd)

PART NUMBER								YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
C1301				·			·						
CLAMP	MU2B60	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # C1301	[1			_								1
C98													
HUB	188CESSNA	2	-	-	-	-	-	-	1	1	-	-	-
	A188A	1	_	_	_	_	_	_	_	_	_	1	_
	A188B	2	-	-	-	-	-	-	-	1	-	-	1
	unknown	1	-	-	-	-	-	1	-	-	-	-	-
TOTAL of # C98 -		6		-	-		-	1	1	2	-	1	1
D4885C61													_
HUB	337C	1	-	-	-	-	-	-	-	-	-	-	1
	unknown	1	-	-	-	-	-	1	-	-	-	-	-
TOTAL of # D4885	5C61	2						1					1
LW10025													
OIL COOLER	B60	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # LW10	0025	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL for ALL (18) P	ART NUMBERS:	21							3	3			12
	CCURRENCE REPORT INDEX	21	-	-	-	-	-	2	3	3	-	1	12
END OF BIGINIFICANT O	CCCRRENCE REPORT INDEX												



DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3230	486JB	ВЕЕСН				SPROCKET	FAILED	4500	10/10/97
	AF858	C45H				2162	NLG		97ZZZX4960
	LANDING GEAR F CAUSE IS NOT PO		ON LANDING AT OR	LANDO INTERNATIO	NAL DUE TO THE P	OSITION OF ACFT. AFTER	R REMOVAL FROM THI	E RUNWAY, A	DETERMINATION OF
2150	200NY	BEECH				HOSE	MISINSTALLED	5	10/31/97
	BC25	A200					AIR COND		97ZZZX4935
****	TEMPERATURE R STRONG OIL SME IN CENTER OF EV	ESULTED IN A LOUD P LL UPSET OCCUPANTS	OP OR BANG THOUG . EMERGENCY DECI INVEST FND AIR CO	HT TO BE RAPID DEC LARED. UNEVENTFU OND SUCTION AND D	COMPRESSURIZATI IL LANDING ACCOM	. WAS ON 'AUTO MODE'. (ON. A MIST FORMED IN T MPLISHED. FWD EVAPOR. NSTALLED REVERSED WF	HE CABIN, SMOKE ISS ATOR FOUND RUPTUR	SUED FROM O ED IN CAPILI	VERHEAD VENTS, AND ARY/COOLING FIN AREA
2434	23993	BEECH			FORD	ALTERNATOR	FAILED		10/10/97
NV2R	MC476	C24R				DOFF10300J	DC SYSTEM	227	97ZZZX4867
		ILED IN IMC. AIRCRAF 1-15-96. INSTALLED 5-		AR UP. SUBSTANTIA	L DAMAGE. NO INJ	URIES. INSTALLED NEW	ALTERNATOR. OPS CH	HECKED OK.	FAILED ALTERNATOR
7602	12CM	BEECH				CABLE	BROKEN	52	10/6/97
EBTR	TC300	95A55				5038901021	MIXTURE		97ZZZX4866
	RIGHT MIXTURE (SHEATH. INSTAL		E AND SMOOTH. MA	DE FLIGHT, ENGINE	WOULD NOT SHUT	DOWN. FOUND CABLE B	ROKEN AT WELD JOIN	T ON ENGINE	END UNDER SOLID
7921	7288D	BEECH				OIL COOLER	LEAKING	2	11/17/97
ΓE1R	P81	B60				LW10025	ENGINE OIL		97ZZZX4956
	COOLER NR 2 WA	S INSTALLED AND DE	VELOPED A LEAK AF	TER 2 HRS. THE NR	2 OIL COOLER WAS	T 2426.8 HOURS. THIS OIL CUT IN TWO TO SEE IF T UNIT WAS REPLACED WIT	HE CAUSE OF THE LEA		
7921	7288D	BEECH				OIL COOLER	LEAKING	6	11/17/97
ΓE1R	P81	B60				LW10025	ENGINE OIL		97ZZZX4955
*****	COOLER NR 2 WA	S INSTALLED AND DE	VELOPED A LEAK AF	TER 2 HRS. THE NR	2 OIL COOLER WAS	T 2426.8 HOURS. THIS OIL CUT IN TWO TO SEE IF T UNIT WAS REPLACED WIT	HE CAUSE OF THE LEA		
3710	491JV	ВЕЕСН				TUBE ASSY	CHAFED	2299	11/17/97
	LJ1349	C90A				1013202661	VACUUM SYSTEM	Л	97ZZZX4968
						S RESTING ON PIPE. THEI D WHEN PERFORMING A F			
2710	4952E	CESSNA				CABLE	FRAYED	1573	10/24/97
	18503918	185F				0510105113	AILERON		97ZZZX4890
		E TREATMENT FORMEI				EATED INTERNALLY WITH OK OK. CLEANING CABL			

DOMESTIC SEDVICE	DIEEICHI TV	REPORT SUMMARY	AIDCD AFT (cont'd)
TOURIESTIC SERVICE		KEPUK I SUMMAKY	- AIKUKAFI (CONTO)

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - AIR	CRAFT (cont'd)			11/30/97	To 12/6/97	ISSUE: 97-49 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2710	4952E	CESSNA				CABLE	FRAYED	1573	10/24/97
	18503918	185F				0510105322	AILERON		97ZZZX4889
****		TREATMENT FORME				ATED INTERNALLY WITH OK OK. CLEANING CABLE			
2430	9959R	CESSNA				RELAY	SHORTED		11/6/97
RF1R	U20607000	U206G				A7002C7	GEN REV CUR		97ZZZX4882
						CH SHORTED RELAY. AIR S A SOLOY CONVERSION.		IN HEAVY RA	IN. SUGGEST SEALING
7120	61DW	CESSNA				MOUNT	FAILED		11/18/97
RF1R	620604257	TU206G					ENGINE SHOCK		97ZZZX4880
	FORWARD ENGIN STREAM FOR BET		ATTENED CAUSING (OIL TEMPERATURES	TO INCREASE. INS	TALLED NEW ENGINE SHO	OCK MOUNTS WHICH	RAISED OIL C	OOLER INTO PROPER AIR
2823	4891U	CESSNA				VALVE	DEFECTIVE	4177	11/19/97
RF1R	21064834	T210N					FUEL SELECTOR		97ZZZX4883
		TANK NOT FEEDING I NALLY LEAKING CAU				. ACTING LIKE ONLY FEE L SELECTOR VALVE.	DING FROM RT TANK	. FUEL RETUI	RN PORTION OF FUEL
3230	500SH	CESSNA				LINKAGE	FAILED		11/5/97
	310N0108	310N				08421201	NLG RETRACT		97ZZZX4886
	NOSE GEAR COLL		GE TO AIRCRAFT. N			ED. PILOT MADE SEVERANSPECTION REVEALED TO	,		,
3234	340JE	CESSNA				SWITCH	FAILED	5304	10/16/97
BXSR	3400046	340CESSNA				MS25126E	GEAR SELECT		97ZZZX4869
		VOULD NOT EXTEND V TH WOULD REMAIN OF				EXTENDED WITH NO PRO	OBLEM. TROUBLESH	OT AND FOUN	D THE GEAR POSITION
2750	31DB	CESSNA				PULLEY	FAILED		10/10/97
	4010202	401					FLAP		97ZZZX4887
****	BATTERY ACID LI	*	N DRAIN LINE. WHE	N BEARING FROZE, I	,	AND AFT OF BATTERY BO OM PULLEY AND PULLEY			
3320	7037E	CESSNA				POTENTIOMETER	FAILED		11/10/97
	402C0471	402C				CM35351	DIMMER BOARD		97ZZZX4962
	AN ODOR OF ELECTURIED TO SE		ED THE CABIN. AIRC	RAFT LANDED WITH	IOUT INCIDENCE. 1	FOUND THE DIMMER BOAI	RD AT FAULT. DIMMI	ER ASSY REPI	ACED AND AIRCRAFT
5541	387HA	CESSNA				RIB	CRACKED	5921	11/17/97
SI6R	0465	550				55331160	RUDDER		97ZZZX4966
****						CRACKED ACROSS THE END THE ATTACHING RUDDE		RIB. THE DA	MAGE TO THE RIB WAS A

DOMESTIC SEDVICE	E DIFFICULTY REPORT SUMMARY	AIDCD AFT (cont'd)
DOMESTIC SERVICE	S DIFFICULTY REPORT SUMMARY	- AIKUKAFI (CONTO)

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

DOMESTI	C SERVICE DIFF	ICULTY REPORT S	SUMMARY - AIR	CRAFT (cont'd)			<u>11/30/97</u>	<u>Γο 12/6/97 Ι</u>	SSUE: 97-49 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2161	1TC	PILATS				VALVE	FAILED	1114	9/17/97
	130	PC12				9599020134	CABIN TEMP		97ZZZX4885
		ERS REPORT THE COCI TED TEMPERATURE C				TROL TEMPERATURE WIT OSING.	TH THE E.C.S. IN AUT	OMODE AND T	HE MANUAL MODE.
2161	612PC	PILATS				VALVE	FAILED	436	10/9/97
	146	PC12				9599020134	CABIN TEMP		97ZZZX4884
	PILOT REPORTED A VALVES. OPS CHE		AT. TROUBLESHOT	E.C.S. SYSTEM. FOU	ND HEAT VALVE IN	OPERABLE. WOULD NOT	OPERATE IN AUTO O	R MANUAL MC	DDES. REPLACED
7160	1458C	PIPER				HOSE	FAILED		11/1/97
	182657	PA18135					ENGINE INDUCT		97ZZZX4958
****	CHAMBERS. THE S TO 250 RPM'S AT F	SWELLED LINING THA	T REMAINED SWELL PROBLEM WAS HARI	ED OUT ENOUGH TO	O OBSTRUCT FLOW	CIRCUMFERENCE. SOME I CAUSING THE ENGINE TO DULD SHRINK BACK WHEN	RUN ROUGH AT HIG	H THROTTLE S	SETTINGS AND LOSE 200
2140	4108D	PIPER			JANITROL	COMBUSTION LINER	CRACKED		11/19/97
	318352018	PA31350			65D793		HEATER	486	97ZZZX4874
	HEATER FAILED PI	RESSURE DECAY TEST	. UPON REMOVAL, O	CRACK WAS NOTED	IN COMBUSTION LI	NER.			
3213	38KC	PIPER				HOUSING	CRACKED		11/11/97
	318352033	PA31350				40327000	RT MLG		97ZZZX4888
****		IN LANDING GEAR HO BELOW CASTING MAI			UNDER CLAMP WHI	CH ATTACHED BRAKE LIN	E GUARD TO HOUSI	NG. CRACK WA	AS APPROXIMATELY 1

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7210	58НЈ	BELL	LYC			LOCKCUP	CRACKED		11/13/97
ZP3R	30314	205A1	T5317A		103035012	103019501	OUTPUT GEARBOX	1745	97ZZZX4895
	WHICH ENGAGE T		RSHAFTS. THE RETA	INING NUTS WHICH	THE LOCKCUPS RE	E LOCKCUPS HAD FAILED TAIN, REMAINED IN PLAC ON GEARBOX.			
2562	2270G	BELL			NARCO	ELT	FAILED		11/19/97
HEEA	3610	206B3				ELT910	COCKPIT		HEEA0012108
	ELT INOPERATIVI	₹.							
2562	206LS	BELL			NARCO	ELT	FAILED		11/19/97
HEEA	51070	206L3				ELT910	COCKPIT		HEEA0012082
	ELT WOULD NOT	TURN OFF.							
2820	5748Q	BELL				CARTRIDGE	DEFECTIVE		11/19/97
HEEA	45499	206L1				2C271	FUEL SYS		HEEA0012096
	FUEL PRESSURE F	READS LOW WHEN GE	NERATOR IS OFF LIN	E.					
2844	3116L	BELL				TRANSDUCER	FAILED		11/19/97
HEEA	51529	206L3				BSE20630G	FUEL PRESS		HEEA0012072
	TRANSMITS 5 VO	LTS THROUGHOUT TE	ST AND CONNECTOR	R HAS RUST AND CO	RROSION.				
2913	50182	BELL				PUMP	WORN		11/19/97
HEEA	45242	206L1				206076030101	HYD SYS		HEEA0012107
	PUMP WORN SPLI	NE.							
3421	515KA	BELL				SYNCHRO	BROKEN		11/19/97
HEEA	51048	206L3			KA15A	071105304	COCKPIT		HEEA0012073
	CASE BROKEN.								
3422	515KA	BELL				FLUX VALVE	ERROR		11/19/97
HEEA	51048	206L3			KFM112	071105200	COCKPIT DIR SYS		HEEA0012071
	FLUX VALVE 30 D	EG OFF.							
3425	515KA	BELL				HSI	INTERMITTENT		11/19/97
HEEA	51048	206L3			KI525A	066304607	COCKPIT		HEEA0012074
	INDICATOR HEAD	DING DATA INTERMIT	TENT. CRS DATA VO	LTAGE HIGH PRECE	SSES ON NORTH HE	EADING.			
3452	50182	BELL				TRANSPONDER	FAILED		11/19/97
HEEA	45242	206L1			KT76	066106200	COCKPIT ATC		HEEA0012110
	TRANSPONDER D	OES NOT SEND OUT A	CODE. (NO POWER O	OUT AND PULSE WID	OTH OUT OF SPECS)				
6210	8593X	BELL				BLADE	CORRODED	1081	11/21/97
HEEA	51509	206L3				206015001107	M/R		HEEA0012119
	BLADE HAS DRIL ALLOWABLE LIM		ROM BELL. AFTER O	CLEANING THE CORE	ROSION IN THE DRII	LL MARK IN THE SPAR, TH	HE SPAR MEASURED ONL	Y .092" WH	ICH IS BELOW THE

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6220		BELL				WASHER	CRACKED		11/4/97
		206B3				206010154003	M/R HUB	1200	97ZZZX4969
		I 5051. WASHER WAS F VERHAUL PROCEDUR			DIAMETER TO OUT	SIDE DIAMETER DURING	HUB OVERHAUL. WAS	SHERS ARE N	OT SPECIFIED TO BE
6230	2611	BELL				DUPLEX BEARING	BRINELLED	411	10/2/97
	45417	206L1			206010450113	206010443001	SWASHPLATE		97ZZZX4972
	THIS IS NR 6 AND SINCE NEW.	NR 7 DUPLEX BEARIN	G CHANGE FOR BRIN	NELLING ON RACES	PARTICULARLY TH	E LOWER INNER RACE. AI	LL HAVE BEEN CHANC	GED WITH LE	SSS THAN 100-HOUR TT
6230	577E	BELL				DUPLEX BEARING	BRINELLED	510	10/2/97
	45577	206L1			206010450113	206010443001	SWASHPLATE		97ZZZX4971
	THIS IS NR 6 AND SINCE NEW.	NR 7 DUPLEX BEARIN	G CHANGE FOR BRIN	NELLING ON RACES	PARTICULARLY TH	E LOWER INNER RACE. AI	LL HAVE BEEN CHANG	GED WITH LE	SS THAN 100-HOUR TT
6320	42EA	BELL				SUN GEAR	PITTED	3329	11/19/97
HEEA	51542	206L3				206040561103	TRANSMISSION		HEEA0012109
	SUN GEAR SPLINI	ES PITTED. REMOVED	FROM TRANSMISSIO	ON S/N B51797, T.T. 33	329:35, TSO 3329:35, T	ΓSI 1584:05. REPLACED WI	TH SERVICEABLE SUN	GEAR.	
6330	8592X	BELL				LINK ASSY	SEPARATED		11/19/97
HEEA	51508	206L3				206033554101	M/R		HEEA0012091
	LINK ASSY BEAR	NG SEPARATED.							
6330	6160Y	BELL				FLEXURE	DETERIORATED		11/18/97
HEEA	51609	206L3				206033516101	M/R XMSN		HEEA0012023
	FLEXURE RUBBE	R DETERIORATED.							
7314	2269A	BELL	ALLSN			FUEL PUMP	LEAKING	9525	11/19/97
HEEA	3608	206B3	250C20B			5002395D	SEAL DRAIN		HEEA0012098
	FUEL LEAKING F	ROM SEAL DRAIN.							
7714	3178K	BELL				INDICATOR	STICKS		11/19/97
HEEA	45765	206L1				206070266009	COCKPIT TACH		HEEA0012063
	INDICATOR NEED	LE STICKS THROUGH	OUT SCALE.						
7714	210PH	BELL				TACH GEN	FAILED		11/19/97
HEEA	51541	206L3				206062627003	ENG RPM		HEEA0012095
	TACH GENERATO	R VOLTAGE BETWEEN	N PHASES IS OUT.						
7921	2246Q	BELL				OIL COOLER	CORRODED		11/19/97
HEEA	45752	206L1				8543909	ENG OIL		HEEA0012078
	OIL COOLER HAS	CORROSION IN FINS.							
7930	21431	BELL				INDICATOR	FAILED		11/10/97
HEEA	3452	206B3			174000103	174035201	ENG OIL		HEEA0011920
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930	21431	BELL				INDICATOR	FAILED		11/10/97
HEEA	3452	206B3			174000103	174035201	ENG OIL		HEEA0011903
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	C. SCRAPPED	INDICATOR AND
7930	2163Y	BELL				INDICATOR	FAILED		11/10/97
HEEA	3496	206B3			03773804	1740352	ENG OIL		HEEA0011919
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND
7930	2268A	BELL				INDICATOR	FAILED		11/10/97
HEEA	3602	206B3			174000101	1740352	ENG OIL		HEEA0011910
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	C. SCRAPPED	INDICATOR AND
7930	2272J	BELL				INDICATOR	FAILED		11/10/97
HEEA	3620	206B3			174000103	174035201	ENG OIL		HEEA0011891
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND
7930	2277A	BELL				INDICATOR	FAILED		11/10/97
HEEA	3630	206B3			174000103	174035201	ENG OIL		HEEA0011913
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	2285B	BELL				INDICATOR	FAILED		11/10/97
HEEA	3642	206B3			174000103	174035201	ENG OIL		HEEA0011899
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND
7930	3181J	BELL				INDICATOR	FAILED		11/10/97
HEEA	3771	206B3			174000103	174035201	ENG OIL		HEEA0011927
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND
7930	5006F	BELL				INDICATOR	FAILED		11/10/97
HEEA	45181	206L1			174000103	174035201	ENG OIL		HEEA0011893
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	. SCRAPPED	INDICATOR AND
7930	5014Y	BELL				INDICATOR	FAILED		11/10/97
HEEA	45219	206L1			174000103	174035201	ENG OIL		HEEA0011911
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	2758N	BELL				INDICATOR	FAILED		11/10/97
HEEA	45267	206L1			174000103	174035201	ENG OIL		HEEA0011895
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	X. SCRAPPED	INDICATOR AND

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930	1078C	BELL				INDICATOR	FAILED		11/10/97
HEEA	45392	206L1			174000103	174035201	ENG OIL		HEEA0011926
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	1078G	BELL				INDICATOR	FAILED		11/10/97
HEEA	45398	206L1			174000103	174035201	ENG OIL		HEEA0011923
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	45RP	BELL				INDICATOR	FAILED		11/10/97
HEEA	45521	206L1			03773804	1740352	ENG OIL		HEEA0011924
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	2245Y	BELL				INDICATOR	FAILED		11/10/97
HEEA	45751	206L1			174000103	174035201	ENG OIL		HEEA0011896
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
930	2250U	BELL				INDICATOR	FAILED		11/10/97
HEEA	45754	206L1			174000103	174035201	ENG OIL		HEEA0011897
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	2251Z	BELL				INDICATOR	FAILED		11/10/97
HEEA	45756	206L1			174000103	174035201	ENG OIL		HEEA0011907
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	81SP	BELL				INDICATOR	FAILED		11/10/97
HEEA	51029	206L3			174000101	1740352	ENG OIL		HEEA0011925
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	31801	BELL				INDICATOR	FAILED		11/10/97
HEEA	51074	206L3			174000103	174035201	ENG OIL		HEEA0011909
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	979BH	BELL				INDICATOR	FAILED		11/10/97
HEEA	51403	206L3			174000101	1740352	ENG OIL		HEEA0011912
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	6610Y	BELL				INDICATOR	FAILED		11/10/97
HEEA	51419	206L3			174000103	174035201	ENG OIL		HEEA0011921
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930	8587X	BELL				INDICATOR	FAILED		11/10/97
HEEA	51464	206L3			174000103	174035201	ENG OIL		HEEA0011908
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	41791	BELL				INDICATOR	FAILED		11/10/97
HEEA	51465	206L3			174000103	174035201	ENG OIL		HEEA0011917
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
7930	8592X	BELL				INDICATOR	FAILED		11/10/97
HEEA	51508	206L3			174000103	174035201	ENG OIL		HEEA0011905
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
930	8593X	BELL				INDICATOR	FAILED		11/10/97
HEEA	51509	206L3			174000103	174035201	ENG OIL		HEEA0011892
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
930	31073	BELL				INDICATOR	FAILED		11/10/97
HEEA	51519	206L3			174000103	174035201	ENG OIL		HEEA0011894
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	ISTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	K. SCRAPPED	INDICATOR AND
3010	1067D	BELL				RELAY	FAILED		10/20/97
ALGA	45435	206L1				A1077	STARTER		97ZZZX4898
	GENERATOR. AT	TEMPTED START, STA	RTER GENERATOR S'	TARTED SMOKING, A	AND CAUGHT FIRE.	NERATOR AND FAILED TO ABORTED AND EXTINGU SECOND STARTER GENEI	ISHED FIRE QUICKLY	. INSPECTED	ENGINE AND AIRFRAM
2800	5736D	BELL				SEAL	LEAKING		11/19/97
HEEA	31135	212				811091	FUEL SYS		HEEA0012094
	SEAL LEAKING.								
5280	5736D	BELL				DOOR ASSY	SEPARATED		11/19/97
HEEA	31135	212				212030348003	NLG		HEEA0012065
	NLG DOOR ASSY	SEPARATED BEYOND	REPAIR.						
5220		BELL				DAMPER ASSY	LEAKING		11/19/97
HEEA		212				204010937009	M/R		HEEA0012089
-	DAMPER ASSY HA								
2121	6957Y	BELL				BLOWER	FAILED		11/19/97
HEEA	28139	214ST				214073917101	CABIN		HEEA0012100
	S/N 575 VERY LOU	JD AND VIBRATES BAI	DLY. S/N 206 INOPER	ATIVE. SENT T					
2437	3897N	BELL				INDICATOR	FAILED		11/19/97
HEEA	28106	214ST				214175250103	COCKPIT		HEEA0012081

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2730	6957Y	BELL				ACTUATOR ASSY	FAILED		11/19/97
HEEA	28139	214ST				214001970107	ELEV		HEEA0012102
	ACTUATOR KICKI	NG OFF LINE AT 80 KTS	S.						
330	8045T	BELL				CLEVIS ARM ASSY	SEPARATED		11/19/97
HEEA	28101	214ST				214031615106	M/R XMSN		HEEA0012090
	CLEVIS ARM ASSY	RUBBER SEPARATED.							
5720	5748M	BELL				ACTUATOR ASSY	FAILED		11/19/97
HEEA	28102	214ST				214001540111	YAW CHANNEL		HEEA0012097
	ACTUATOR ASSY	YAW CHANNEL TRIPS	IN FLIGHT.						
714	3897N	BELL				INDICATOR	FAILED		11/19/97
HEEA	28106	214ST				214175251103	TRIPLE TACH		HEEA0012099
	TRIPLE TACH IND	ICATOR READS HIGH.							
5220	437AL	BELL				DAMPER ASSY	DETERIORATED	58	10/23/97
LGR	53141	407				407010150101A	M/R		97ZZZX4909
	DAILY INSPECTIO	N FOUND FRAHM DAM	PER ASSY RUBBER	DETERIORATING AN	D STICKING OUT OF	F DAMPER.			
420	407PH	BELL				HUB	DAMAGED	1783	11/21/97
HEEA	53003	407				407012101105	T/R		HEEA0012120
	T/R HUB AND BLA	DE SUSPECT POSSIBLE	CONTACT WITH ST	TATIC STOP.					
500	437AL	BELL				MAST NUT	LOOSE		9/30/97
LGR	53141	407			407012100101	406017113101	T/R		97ZZZX4906
		N FOUND COMPLETE L EPT THE NUT FROM SP				EMOVED BY HAND. THE S	SAFETY WIRE BETWEE	N THE NUT A	AND THE SUPPORT, (P/N
5510	407AL	BELL				DISC	CRACKED		9/30/97
ALGR	53044	407				406040340101	T/R DRIVE		97ZZZX4900
	DAILY INSPECTIO	N AND C/W NOTAM NR	51A-97, FOUND DIS	C CRACKED. ON NR	7 DISC ASSEMBLY,	NR 7 DISC OF THE PACK -	1 DISC ONLY.		
510	407AL	BELL				COUPLING	CRACKED		10/14/97
ALGR	53044	407				406040340101	T/R D/S COUPLING		97ZZZX4901
	DAILY INSPECTIO	N FOUND NR 7 TAIL RO	OTOR DRIVESHAFT	COUPLING, NR 10 DIS	C ON PACK CRACK	ED.			
510	417AL	BELL				DISC PACK	CRACKED		9/30/97
510		407				406040340101	NR 7 T/R CPLNG		97ZZZX4902
	53054	407			COLIDI ING CD A CIZ	ED 21 AMINATES ND 1 AF	ND NR 2 PACK HAS TEN	DISCS.	
		TAM 51A-97 OCCURREI	D DURING NORMAL	FLIGHT, FOUND NR	COUPLING CRACK	ED 2 LAMINATES NK I AL			
LGR			D DURING NORMAL	FLIGHT, FOUND NR	COUPLING CRACK	BEARING	ROUGH	634	9/30/97
5510 ALGR 5510 ALGR	DAILY CHECK NO	TAM 51A-97 OCCURREI	D DURING NORMAL	FLIGHT, FOUND NR	406040320101		ROUGH T/R DRIVE	634	9/30/97 97ZZZX4903
ALGR 5510	DAILY CHECK NO 417AL 53054 NR 2 SHAFT REMO	TAM 51A-97 OCCURREI BELL 407	DUE TO ROUGH BE.	ARING. FOUND BEAI	406040320101 RING 406-040-339-105	BEARING	T/R DRIVE		97ZZZX4903
ALGR 5510 ALGR	DAILY CHECK NO 417AL 53054 NR 2 SHAFT REMO	TAM 51A-97 OCCURREI BELL 407 DVED FROM AIRCRAFT	DUE TO ROUGH BE.	ARING. FOUND BEAI	406040320101 RING 406-040-339-105	BEARING 406040339105	T/R DRIVE		97ZZZX4903
ALGR 5510	DAILY CHECK NO 417AL 53054 NR 2 SHAFT REMO 101, TT 1410.8 HOU	TAM 51A-97 OCCURREI BELL 407 OVED FROM AIRCRAFT JRS. FORWARD SPLINE	DUE TO ROUGH BE.	ARING. FOUND BEAI	406040320101 RING 406-040-339-105	BEARING 406040339105 5 INSTALLED AT AIRCRAI	T/R DRIVE FT HOURS 808.0 HOURS		97ZZZX4903 SO, SHAFT 406-040-320-

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6510	437AL	BELL				DISC	CRACKED		9/24/97
ALGR	53141	407				406040340101	T/R DISC PACK		97ZZZX4907
	SCHEDULED INSP	ECTION FOUND DISC	CRACKED.						
6510	437AL	BELL				DISC	CRACKED		9/9/97
ALGR	53141	407			407040302101	406040340101	T/R DRIVE		97ZZZX4905
	DURING DAILY IN	SPECTION, FOUND T/F	R DRIVE DISC HAS C	RACK STARTING ON	INSIDE DIAMETER	GOING TOWARDS OUTSID	E DIAMETER, NR 1 DISC	C (FIRST ON	PACK).
6510	437AL	BELL				DISC PACK	CRACKED		11/2/97
ALGR	53141	407				406040340101	T/R SHAFT		97ZZZX4904
	ON 50-HOUR P.M.I	I., AND AD 97-22-15, FO	UND NR 10 OF 10 DIS	C CRACKED IN 2 PLA	ACES.				
6510	437AL	BELL				DISC PACK	CRACKED	58	10/13/97
ALGA	53141	407			407040302101	406040340101	T/R DRIVE SHAFT		97ZZZX4932
		SPECTION OF TAILBO			DISC PACK (T/R D/S	S) ASSEMBLY. ONLY ONE	DISC FOUND CRACKED	IN THE NR	10 POSITION OUT OF
6510	437AL	BELL				DISC PACK	CRACKED		10/29/97
ALGR	53141	407				406040340101	T/R SHAFT		97ZZZX4910
	DURING 50-HOUR	PMI AND MAINTENAN	NCE NOTAM NR 51B-9	97, FOUND NR 1 DISC	IN PACK ASSEMBL	Y OF 10 DISC TOTAL, CRA	CKED IN TWO PLACES.		
2210	1202T	BELL				TARSYN	FAILED		11/19/97
HEEA	33112	412				2593996333	AUTO FLIGHT		HEEA0012104
	TARSYS UNIT FAI	LED TEST 8.5 ON SST I	BENCH. TIME SINCE	REPAIR 0:00.					
2210	108X	BELL				CONTROL	DEFECTIVE		11/19/97
HEEA	33115	412				7000299901	AUTO PILOT		HEEA0012086
	AUTO PILOT CON	TROL PIN J2 PUSHED B	BACK.						
2210	22347	BELL				TARSYN	FAILED		11/19/97
HEEA	36005	412				2593996333	AUTO FLIGHT		HEEA0012103
	TARSYN TAKES 3	0 MINUTES TO SPOOL	UP.						
2211	1202T	BELL				FZ702 COMPUTER	FAILED		11/19/97
HEEA	33112	412				4033089901	AUTO FLT		HEEA0012068
	WITH FK DIRECTI	ON ENGAGED IN ILS A	APPROACH, AIRCRAF	T HAS A STEADY RO	CK AND ROLL. SEN	Γ			
2822	141PH	BELL				PUMP	FAILED		11/19/97
HEEA	33197	412				205060606003	FUEL BOOST		HEEA0012064
	PUMP CAUTION L	IGHT CAME ON.							
2840	108X	BELL				SWITCH	LEAKING		11/19/97
HEEA	33115	412				1103P262	FUEL PRESS		HEEA0012105
	PRESSURE SWITC	H LEAKING. S/N 3280	& 0083						
5260	293CA	BELL				ACTUATOR	FAILED		11/19/97
HEEA		412				SYLC502283	STEP		HEEA0012093
	STEP ACTUATOR	VERY SLOW AND WEA	AK.						

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
260	22347	BELL				ACTUATOR	FAILED		11/19/97
IEEA	36005	412				212075418103	STEP		HEEA0012069
	STEP ACTUATOR	WILL NO LONGER ACT	UATE.						
520	2148K	BELL				SLEEVE ASSY	CORRODED		11/19/97
IEEA	36001	412			212040004009	212040452001	T/R GR BOX		HEEA0012115
	SLEEVE ASSY HAS	S CORROSION ON O'RIN	IG GROOVE. REPLAC	CED WITH SERVICEA	BLE SLEEVE.				
520	2148K	BELL				CASE ASSY	CORRODED		11/19/97
IEEA	36001	412			212040004009	212040468001	T/R GR BOX		HEEA0012114
	CASE ASSY HAS E	XCESSIVE CORROSION	AT O'RING GROOV	E AND LUGS. REPLAC	CED WITH SERVICE	ABLE CASE.			
710	6559Z	BELL				ACTUATOR	FAILED		11/19/97
HEEA	36019	412				204060762103	M/R		HEEA0012077
	ACTUATOR SLOW	TO REACT (BINDING).							
720	2261D	BELL				LEVER ASSY	PITTED		11/19/97
IEEA	33076	412				204001757005	T/R CONTROL		HEEA0012062
	LEVER ASSY PITT	ED IN AREA.							
250	33008	BELL	PWA			POWER SECTION	FAILED	16281	11/13/97
IEEA	36004	412	PT6T3B			3017600	ENGINE		HEEA0011988
	ENGINE COMPRES	SSOR STALLS. SENT TO	PRATT AND WHITN	NEY FOR EXCHANGE.					
322	6559Z	BELL				FUEL CONTROL	LEAKING	10933	11/19/97
HEEA	36019	412				324473512	ENGINE		HEEA0012116
	FUEL CONTROL L	EAKING THROUGH WE	EP HOLE AT BOTTO	M OF FUEL CONTRO	L. REPLACED WITH	SERVICEABLE FUEL CONT	ROL.		
712	33008	BELL				INDICATOR	STICKS		11/19/97
HEEA	36004	412				412075008111	NR 2 TORQUE		HEEA0012083
	NR2 NEEDLE STIC	CKS AT 30% INTERMITT	ENTLY.						
722	2258F	BELL				INDICATOR	FAILED		11/19/97
HEEA	33073	412				212075067109	COCKPIT ITT		HEEA0012101
	ITT INDICATOR R	EADS ZERO ALL OF TH	E TIME.						
722	107X	BELL				TRIM COMPENSATOR	FAILED		11/19/97
HEEA	33113	412				3030083	ENGINE		HEEA0012079
	TRIM COMPENSA	TOR READS 200 DEG CO	OOLER THAN ACTU	AL.					
520	73953	BELL				CASE	CORRODED	2292	11/16/97
	2866	47G2A1			476400751	4764521215	T/R GEARBOX	831	97ZZZX4933
****						, PULLED THE GUARD OUT H MAGNESIUM HOUSING. 1			
312	911PF	BOLKMS				TRANSCEIVER	WEAK		11/19/97

RT406F

40001278501

BO105S

-30DB WEAK RECEIVER SENSITIVITY AT TURN ON.

S718

HEEA

HEEA0012075

COCKPIT

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2910	107AL	BOLKMS				WIRING HARNESS	FAILED		11/1/97
ALGA	S772	BO105S			10545028	112194400	HYD PACK		97ZZZX4899
	IN-FLIGHT, HYDR	AULIC BLOCK ILLUMI	NATED; SYSTEM SW	ITCHED TO NR 2 HYI	DRAULIC SYSTEM.	RETURNED TO BASE WITH	OUT INSTALLED NEV	V HARNESS.	
3452	911FL	BOLKMS				TRANSPONDER	FAILED		11/19/97
HEEA	S717	BO105S			KT76	066106200	COCKPIT ATC		HEEA0012111
		TERMITTENT, DROPP STED PULSE WIDTH A			IINARY INSPECTION	I AND FOUND RECEIVER D	ROPPING OFF LINE. R	EPLACED CF	2202 MIXER DIODE.
6240	5029H	BOLKMS				INDICATOR	FAILED		11/19/97
HEEA	S670	BO105S				10594564	MAST MOMENT		HEEA0012084
	MAST MOMENT IN	NDICATOR INOPERATI	VE.						
6240	5029H	BOLKMS				TRANSMITTER	FAILED		11/19/97
HEEA	S670	BO105S				10594575	MAST MOMENT		HEEA0012085
	TORQUE TRANSM	ITTER INOPERATIVE.							
6240	50293	BOLKMS				RPM WARNING BOX	INTERMITTENT		11/19/97
HEEA	S677	BO105S				KDW021	ROTOR RPM		HEEA0012067
	RPM WARN BOX (COMES ON INTERMITT	TENTLY.						
6240	724MB	BOLKMS				RPM WARNING BOX	INTERMITTENT		11/19/97
HEEA	S756	BO105S				KDW021A	ROTOR RPM		HEEA0012070
	RPM WARN BOX I	NTERMITTENT OPERA	ATION.						
6320	724MB	BOLKMS				TRANSMISSION	SPALLED	3392	11/19/97
HEEA	S756	BO105S				4638001004	M/R GR BOX		HEEA0012117
	AREA) EXCESSIV		GS 2 EACH 463830308	1, T.T. UNKNOWN AN		T.T. 3392:45 (TOOTH FAILUR 25, S/NNR3089, T.T. UNKNO	,		`
6410	5352Y	BOLKMS				BLADE	ERODED	961	10/8/97
AC2R	S781	BO105S				10531980	T/R		97ZZZX4897
	PAINT PEELING A	T LEADING EDGE ERO	DED INTO POLY STR	IP AND FIBERGLASS	WEBBING. THESE	TWO BLADES REPAIRED J	UNE 18, 1997. TOTAL T	TIME ON BLA	DES 647.9 HOURS.
6410	5352Y	BOLKMS				BLADE	ERODED	961	10/8/97
AC2R	S781	BO105S				10531980	T/R		97ZZZX4896
	PAINT PEELING A	T LEADING EDGE ERO	DED INTO POLY STR	IP AND FIBERGLASS	WEBBING. THESE	TWO BLADES REPAIRED J	UNE 18, 1997. TOTAL T	TIME ON BLA	DES 647.9 HOURS.
7120	911EB	BOLKMS				BUSHING	SEPARATED		11/19/97
HEEA	S812	BO105S				10560386	ENGINE MT		HEEA0012118
	INNER BUSHING S	EPARATED FROM RUI	BBER. REPLACED WI	ΓΗ SERVICEABLE PA	ART.				
7310	9190Y	BOLKMS	ALLSN			PIPE	STRIPPED		11/19/97
HEEA	S669	BO105S	250C20			10561320	ENGINE		HEEA0012092
	CONNECTING PIPE	E CORRODED AND ST	RIPPED OUT.						
7412	624MB	BOLKMS				IGNITER BOX	FAILED		11/19/97
HEEA	S751	BO105S				106149501	ENG IGNITION		HEEA0012066
	IGNITER BOX BRO	OKEN INSULATION AT	CONNECTING POINT	Γ.					

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930	3533T	BOLKMS				INDICATOR	FAILED		11/10/97
IEEA	S111	BO105S			174000101	1740352	ENG OIL		HEEA0011918
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	, TESTED AND INDICATOR	STILL DID NOT WORF	K. SCRAPPED	INDICATOR AND
930	3526T	BOLKMS				INDICATOR	FAILED		11/10/97
EEA	S610	BO105S			174000103	174035201	ENG OIL		HEEA0011904
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	, TESTED AND INDICATOR	STILL DID NOT WORE	K. SCRAPPED	INDICATOR AND
930	3526T	BOLKMS				INDICATOR	FAILED		11/10/97
EEA	S610	BO105S			174000101	1740352	ENG OIL		HEEA0011915
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	, TESTED AND INDICATOR	STILL DID NOT WORE	K. SCRAPPED	INDICATOR AND
930	54197	BOLKMS				INDICATOR	FAILED		11/10/97
EEA	S805	BO105S			174000103	174035201	ENG OIL		HEEA0011906
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	, TESTED AND INDICATOR	STILL DID NOT WORE	K. SCRAPPED	INDICATOR AND
930	7170D	BOLKMS				INDICATOR	FAILED		11/10/97
EEA	S840	BO105S			174000103	174035201	ENG OIL		HEEA0011902
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	, TESTED AND INDICATOR	STILL DID NOT WORF	K. SCRAPPED	INDICATOR AND
310	401PH	BOLKMS				CONTROL UNIT	FAILED		11/19/97
EEA	7050	BK117A3				1179203103	COCKPIT		HEEA0012080
	CONTROL POPS C	CIRCUIT BREAKER.							
810	5027P	HUGHES				TANK	COLLAPSED	2	11/16/97
S1R	611002D	369D				37510007	AUX FUEL		97ZZZX4970
****						ON INVESTIGATION, FOUN ED BY THE MANUFACTURE			
710	4503E	SKRSKY				SPRING	BROKEN		11/13/97
	61220	S61N			6165020300	S616520262	COLLAR ASSY	798	97ZZZX4931
****		ND A BROKEN 'BOOT S				CYCLIC FLIGHT CONTROL S RE IT IS INSERTED INTO TH			
		SKRSKY				SMOKE DETECTOR	FAILED		11/19/97
511	31219	DIXIONI							
611 IEEA	31219 760230	S76A				302317B	DETECTOR BULB		HEEA0012076
	760230					302317B	DETECTOR BULB		HEEA0012076
EEA	760230	S76A				302317B TRANSMITTER	DETECTOR BULB ERRATIC		HEEA0012076 11/19/97
	760230 SMOKE DET WILI	S76A L NOT TEST BULBS.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3230	741SW	SKRSKY				JURY BRACE	FAILED		10/13/97
ALGR	760070	S76A			1945E175A02	1945E72A02	RT GEAR		97ZZZX4911
						YCLING THE LANDING GE DOD. RETURNED TO SERV		EMAINED. RE	ΓURNED TO BASE.
3444	1546G	SKRSKY				TRANSCEIVER	FAILED		10/22/97
HEEA	760076	S76A				7001840903	COCKPIT		HEEA0011647
	TRANSCEIVER FA	AILED 4.1 CHECK TEST	ON SST BENCH (LED	50 REMAINS ON).					
3450	22342	SKRSKY				CONTROL BOX	DEFECTIVE		11/19/97
HEEA	760096	S76A				071121004	COCKPIT		HEEA0012112
		NOB MISSING. PERFOR IRED. BENCH CHECK (INSPECTION AND FO	OUND KNOB MISSIN	IG. REPLACED KNOB P/N	073-0554-04. ALSO REF	PLACED V301	PHOTOCELL P/N 134-
3450	22342	SKRSKY				CONTROL	FAILED		11/19/97
HEEA	760096	S76A				071121627	NR 1 NAV		HEEA0012113
	NR1 NAV FREQUE GOOD.	ENCY DISPLAY GOES O	FF AND ON. PERFOR	MED PRELIMINARY	INSPECTION AND F	OUND DISPLAY DIM. REP	LACED V101 PHOTOCI	ELL. REPAIRI	ED. BENCH CHECK
6320		SKRSKY				UPPER HOUSING	FLAWED		11/19/97
HEEA		S76A				7635109002048	M/R GR BOX		HEEA0012088
	UPPER HOUSING	CASTING FLAW.							
7930	4253S	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760035	S76A			174000103	174035201	ENG OIL		HEEA0011916
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORI	K. SCRAPPED	INDICATOR AND
7930	1546G	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760076	S76A			174000103	174035201	ENG OIL		HEEA0011922
		REMOVED FROM BOW SERVICEABLE PART.	'L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORI	K. SCRAPPED	INDICATOR AND
7930	1547D	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760077	S76A			174000103	174035201	ENG OIL		HEEA0011914
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORI	K. SCRAPPED	INDICATOR AND
7930	1546K	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760082	S76A			174000103	174035201	ENG OIL		HEEA0011901
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORI	K. SCRAPPED	INDICATOR AND
7930	1546K	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760082	S76A			174000103	174035201	ENG OIL		HEEA0011900
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	NSTALLED INDICATO	OR BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORI	K. SCRAPPED	INDICATOR AND

DOMECTIC CEDUICE	DIEDICIII TV DEDODT	' SUMMARY - HELICOPTERS (cont'd
LICHNIESTIC SERVICE	LIJIPPICIJI I Y KPPUKI	SUMINIARY - HELICUPTERS (CONTO

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - HEI	LICOPTERS (cont	<u>d)</u>		11/30/97	Го 12/6/97	ISSUE: 97-49 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7930	5435V	SKRSKY				INDICATOR	FAILED		11/10/97
HEEA	760158	S76A			174000103	174035201	ENG OIL		HEEA0011898
		REMOVED FROM BOW SERVICEABLE PART.	L AND CLEANED. IN	ISTALLED INDICATO	R BACK ON BOWL,	TESTED AND INDICATOR	STILL DID NOT WORK	SCRAPPED	INDICATOR AND

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8510	61DM	AMTRDF	ROTAX			RING GEAR	FAILED	185	5/1/97
	606	KITFOX	ROTAX582			834050	ENG STARTER		97ZZZX4961
	SEPARATED BY . THIS IS NOT AN I: WITH A HEAVIER	125 INCH. SMALLER CF SOLATED CASE IN THE BUILT UNIT, HOWEVE	RACKS WERE NOTEI COLDER ROTAX 582 CR, THAT SB WAS NO	DEMANATING FROM ENGINES WITH THIS OT AVAILABLE TO TH	OTHER BOLT HOLE TYPE STARTER. AI E AUTHOR. THIS R	LARGE CRACK NEAR A B ES. REASON FOR THE CRAP PARENTLY, SERVICE BUI ING GEAR WAS ON THE V CLOSE LOOK AT THE STA	ACKING IS UNKNOWN, LLETIN WAS PUBLISH 'ERGE OF COMPLETE S	HOWEVER, I ED TO REPLA	T HAS BEEN LEARNED CE THESE RING GEARS
7210	58НЈ	BELL	LYC			LOCKCUP	CRACKED		11/13/97
ZP3R	30314	205A1	T5317A		103035012	103019501	OUTPUT GEARBO	X 1745	97ZZZX4895
	WHICH ENGAGE		RSHAFTS. THE RETA	AINING NUTS WHICH	THE LOCKCUPS RE				HE LOCKING TANGS UPS WERE FOUND IN THE
7314	2269A	BELL	ALLSN			FUEL PUMP	LEAKING	9525	11/19/97
HEEA	3608	206B3	250C20B			5002395D	SEAL DRAIN		HEEA0012098
	FUEL LEAKING F	ROM SEAL DRAIN.							
7250	33008	BELL	PWA			POWER SECTION	FAILED	16281	11/13/97
HEEA	36004	412	PT6T3B			3017600	ENGINE		HEEA0011988
	ENGINE COMPRE	SSOR STALLS. SENT TO	PRATT AND WHIT	NEY FOR EXCHANGE					
7322	6559Z	BELL				FUEL CONTROL	LEAKING	10933	11/19/97
HEEA	36019	412				324473512	ENGINE		HEEA0012116
	FUEL CONTROL I	LEAKING THROUGH WI	EEP HOLE AT BOTTO	OM OF FUEL CONTRO	L. REPLACED WITH	SERVICEABLE FUEL CON	NTROL.		
7310	9190Y	BOLKMS	ALLSN			PIPE	STRIPPED		11/19/97
HEEA	S669	BO105S	250C20			10561320	ENGINE		HEEA0012092
	CONNECTING PIF	PE CORRODED AND STE	RIPPED OUT.						
7412	624MB	BOLKMS				IGNITER BOX	FAILED		11/19/97
HEEA	S751	BO105S				106149501	ENG IGNITION		HEEA0012066
	IGNITER BOX BR	OKEN INSULATION AT	CONNECTING POIN	T.					
8530	64874	CESSNA	LYC			PISTON	FAILED	985	11/8/97
	15281457	152	O235L2C			LW13623	CYLINDER NR 1		97ZZZX4879
	INCREASE IN OIL HOURS. BOTTOM JUST AS THE PIST	COMSUMPTION. VISU I SPARK PLUGS SHOWE	AL INSPECTION OF EDONLY VERY LITT NDED SIMILAR TO T	ENGINE WAS OK. CY LE OIL DAMPNESS O	LINDER COMP ALL N CYLINDER NR 1.	ROOVE TO JUST BEFORE E CHECKED 70 OVER 80 OR HOWEVER, A 'POP' COULI 'OUND THE OIL QUICK DR	R BETTER. OIL CHANG D BE HEARD DURING T	E WAS NOT I THE COMP CH	OUE FOR ANOTHER 25 HECK OF CYLINDER NR 1
7322	•	CESSNA	LYC			NUT	MISSING		11/11/97
		172N	O360A4M				CARBURETOR MO)UN291	97 7 7 7 7 X 4952
	DISCOVERED WH	FLAT AND LOCK WASI IEN ENGINE FAILED ON	HERS, WERE DISCOV LANDING AND WO	ULD NOT RESTART.	CURRENT COMBIN	ON THE INTAKE MANIFO ATION OF NUT, LOCK WA ERENT LOCKING DEVICE	OLD THAT THE CARBU	RETOR IS MO	UNTED ON. PROBLEM

DOMESTIC	CEDVICE	DIEEICHI	TV DEDORT	CHMMID	ENGINES (cont'd)
	OCK VICE	DIFFICUL		SUMMARI -	ENGINES (COILG)

ATA OPER REG, NO ACFT MAKE ENGMDL ENG MAKE ENGMDL COMP MID COMP MID PART NUMBE PART NUMBE PART LOC TTO DIFF, DATE OPER CONT NO OPER	DOMEST	IC SERVICE DIF	FICULTY REPORT	SUMMARY - EN	GINES (cont'd)			11/30/97	Го 12/6/97	ISSUE: 97-49 ZAC-327
\$\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			_							
SCIESSIVE OIL OLT OF ENGINE BREATHER PROMPTED ENGINE COMPRESSION CHECK WITCH BEVEALED LOW COMPRESSION N. N. I. CYLINDER. REMOVAL OF CYLINDER REPOLATED PROPOMPHISMOSION INCIGIAL TRIBED INTO A PROXICE. N. SPICE OF COMPRESSION N. N. OR GRONCHE IN SPICE OF COMPRESSION N. OR GRONCHE IN SPICE OF COMPRESSION N. N. OR GRONCHE IN	8530	9773B	CESSNA	LYC			PISTON RING	FAILED		11/20/97
TOP COMMERSION RING SHATTERED INTO APPROX 25 INCH SEGMENTS AND SECOND COMPRESSION RING BROKEN IN SEVERAL PLACES. OIL RING FOUND STUCK IN GROOVE, PISTON ADMAGE ADJACENT VILIDER WAS REMOVED FOR INSPECTION. SHE NOW PORT OR SIGN WISUAL OR DIMENSIONAL) OF DAMAGE ADJACENT VILIDER WAS REMOVED RINSPECTION. SHE NOW PORT OR DIMENSIONAL OF DAMAGE ADJACENT VILIDER WAS REMOVED RINSPECTION. SHE NOW PORT OF THE PROPERTY OF THE PROPERTY OF SHE NOW PORT OF THE PROPERTY OF	GYWR	172RG1027	172RG	O360F1A6			CC20B	NR 1 CYLINDER	854	97ZZZX4964
FEBR 18259203 1821 0.470R		TOP COMPRESSIO WAS DAMAGED II	N RING SHATTERED IN N RING GROOVES, BUT	NTO APPROX .25 INC CYLINDER SHOWE	H SEGMENTS AND SE D NO SIGN (VISUAL C	ECOND COMPRESSIONAL) C	ON RING BROKEN IN SEVE	RAL PLACES. OIL RIN	NG FOUND ST	UCK IN GROOVE. PISTON
SUND POINTS WITH YEAR ON STORM CONT PISTON CRACKED 127 11/1497 12/1497	7414	42818	CESSNA	CONT		SLICK	POINTS	WEAK	613	11/1/97
\$2355 CESSNA CONT PISTON CRACKED 1277 11/14/97	FE6R	18259203	182L	O470R			M3081	MAG		97ZZZX4872
1825735 182G		FOUND POINTS W	ITH VERY LOW SPRING	G TENSION. CAUSEI	ENGINE TO RUN RO	OUGH AND QUIT IN I	FLIGHT AT HIGHER RPM'S.			
SIX ENGINE PISTON E SANCE DESIGNA SOAGOOO PIN THIS CONDITION DID NOT CAUSE AND PERATIONAL PROBLEMS. JUDGING FROM SOUNDING PROBLEMS SOAGOOO PERATIONAL PROBLEMS. JUDGING FROM SOUNDING PROBLEMS SOAGOOO PERATIONAL PROBLEMS. JUDGING FROM SOUNDING PROBLEMS SOAGOOO PERATIONAL PROBLEMS. JUDGING FROM SOAGOOO PERATIONAL PROBLEMS. JUDGING FROM SOAGOOO PERATIONAL PROBLEMS. JUDGING FROM SOAGOOO PERATIONAL PROBLEMS SOAGOOO PERATIONA	8530	3235S	CESSNA	CONT			PISTON	CRACKED	1277	11/14/97
FOURTH OF THE CASTING AROUND PIN. THIS CONDITION DID NOT CAUSE ANY O'PERATIONAL PROBLEMS. JUDGING FROM CARBON CONDITION, HAD EXISTED SUBE TIME. THIS PISTOR IS SAME DESIGN AS SAG26992 WHEN HIS COVERED BY AD96-12-04. RESSON		18255735	182G	O470R			626992	PIN BOSS		97ZZZX4959
10520L 1		FOURTH OF THE C	CASTING AROUND PIN	. THIS CONDITION D	OID NOT CAUSE ANY					
OIL FILTER BYPASS SPRING FOUND BROKEN AND DISC FOUND UNDER ENGINE OIL PRESSURE VALVE. ENGINE HAD NO OIL PRESSURE AFTER STAT-UP. BYPASS DISC FOUND UNDER ENGINE OIL PRESSURE. 8520 74 PB CESSNA CONT 11/3/97 414A1006 414A TSIOS20NB PILOT REPORTED NR 2 ENGINE BEGAN RUNNING ROUGH, THEN FAILED TOTALLY. SUCCESSFUL SINGLE ENGINE LANDING AND FAILED CONNECTING ROD FAILED WHICH PENETRATED CRANKCASE DESTROYING ENGINE. 7414 40024 PIPER LYC DISTRIBUTOR GEAR FAILED 25 15 11/3/97 UC2R 28R7737128 PA28R201 10360C1C6 S4LN1227 10349234 ENG LT MAG 519 97ZZZX4878 PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIR PORT AND MADE AN UNEVENTFUL LANDING. AN INSPECTION OF THE FIFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND THAVE SEVERAL MISSING TEETH AND WAS BEVEN THAT HER SEPARATE PRICES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 11/1/9	8550		CESSNA	CONT			BYPASS SPRING	FAILED		11/1/97
ROSINE OIL PRESSUE RELIEF VALVE PREVENTING ENGINE FROM DEVELOPING ANY PRESSURE. 8520			210	IO520L				OIL FILTER ADAP	T	97ZZZX4949
HALA 1006 414A TSIO520NB RING 6 CYLINDER SUCK SEMINE BEGAN RUNNING ROUGH, THEN FAILED TOTALLY. SUCCESSFUL SINGLE ENGINE LANDING AT SUS. REMOVED COWLING, FOUND NR 6 CYLINDER CONNECTING ROUTH PENETRATED CRANKCASE DESTROYING ENGINE. 7414 40024 PIPER LYC DISTRIBUTOR GEAR FAILED 2515 11/13/97 UC2R 28R7737128 PA28R201 10360C1C6 S4LN1227 10349234 ENG LT MAG 519 97ZZZX4878 PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIRPORT AND MADE AN UNEVENTFUL LANDING. AN INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BUNCH INTO THEE SEPARATE PIECES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31550 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT.							/E. ENGINE HAD NO OIL Pl	RESSURE AFTER STAI	RT-UP. BYPA	SS DISC FOUND UNDER
PILOT REPORTED NR 2 ENGINE BEGAN RUNNING ROUGH, THEN FAILED TOTALLY. SUCCESSFUL SINGLE ENGINE LANDING AT SUS. REMOVED COWLING, FOUND NR 6 CYLINDER CONNECTING ROD FAILED WHICH PENETRATED CRANKCASE DESTROYING ENGINE. 7414 40024 PIPER LYC DISTRIBUTOR GEAR FAILED 2515 11/13/97 UC2R 28R7737128 PA28R201 10360C1C6 S4LN1227 10349234 ENG LT MAG 519 97ZZZX4878 PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIRPORT AND MADE AN UNEVENTIFUL LANDING, AN INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BROKEN INTO THREE SEPARATE PIECES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK RUNS ET HE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97	8520	747PB	CESSNA	CONT			CONNECTING ROD	FAILED	622	11/3/97
CONNECTING ROD FAILED WHICH PENETRATED CRANKCASE DESTROYING ENGINE. 7414 40024 PIPER LYC DISTRIBUTOR GEAR FAILED 2515 11/13/97 UC2R 28R7737128 PA28R201 IO360C1C6 S4LN1227 10349234 ENG LT MAG 519 97ZZZX4878 PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIRPORT AND MADE AN UNEVENTFUL LANDING. AN INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BROKEN INTO THREE SEPARATE PIECES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97		414A1006	414A	TSIO520NB				NR 6 CYLINDER		97ZZZX4891
UC2R 28R7737128 PA28R201 IO360C1C6 S4LN1227 10349234 ENG LT MAG 519 97ZZZX4878 PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIRPORT AND MADE AN UNEVENTFUL LANDING. AN INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BROKEN INTO THREE SEPARATE PIECES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97				,			NGLE ENGINE LANDING A	Γ SUS. REMOVED CO	WLING, FOU	ND NR 6 CYLINDER
PILOT REPORTED ENGINE RUNNING VERY ROUGH DURING ROUTINE TRAINING FLIGHT. THE AIRCRAFT RETURNED TO THE AIRPORT AND MADE AN UNEVENTFUL LANDING. AN INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BROKEN INTO THREE SEPARATE PIECES. 8520 8520 PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97	7414	40024	PIPER	LYC			DISTRIBUTOR GEAR	FAILED	2515	11/13/97
INSPECTION OF THE LEFT MAGNETO WAS PERFORMED AND THE DISTRIBUTOR GEAR WAS FOUND TO HAVE SEVERAL MISSING TEETH AND WAS BROKEN INTO THREE SEPARATE PIECES. 8520 3525B PIPER LYC CRANKCASE CRACKED 11/1/97 317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97	UC2R	28R7737128	PA28R201	IO360C1C6		S4LN1227	10349234	ENG LT MAG	519	97ZZZX4878
317952121 PA31350 TIO540J2BD NR 2 CYL BOSS 1440 97ZZZX4870 DURING TROUBLESHOOTING OF OIL LEAK, A CRACK IN THE ENGINE CASE WAS DISCOVERED. CRACK RUNS FROM LIFTER OIL GALLEY 1 INCH FORWARD OF AND ABOVE NR 2 CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97		INSPECTION OF T								
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CYLINDER BOSS TO 9 O'CLOCK POSITION ON CYLINDER BOSS HOLE. A SECOND CRACK INSIDE THE CASE PARALLELS THE OUTER CASE CRACK EXCEPT IT STARTS AT THE UPPER FORWARD CYLINDER BASE STUD IN THE 11 O'CLOCK POSITION. THE TWO THRU-BOLTS AT REAR OF NR 2 CYLINDER WERE ALSO LOOSE IN THE CASE. CYLINDER NUTS WERE TIGHT. 7414 914DC PIPER LYC SLICK MAGNETO WORN 747 10/31/97		317952121	PA31350	TIO540J2BD				NR 2 CYL BOSS	1440	97ZZZX4870
		CYLINDER BOSS 7	TO 9 O'CLOCK POSITIO	N ON CYLINDER BO	SS HOLE. A SECOND	CRACK INSIDE THE	CASE PARALLELS THE OU	JTER CASE CRACK EX	KCEPT IT STA	RTS AT THE UPPER
4622127 PA46350P TIO540AE2A 6263 ENG LT 97ZZZX4963	7414	914DC	PIPER	LYC		SLICK	MAGNETO	WORN	747	10/31/97
		4622127	PA46350P	TIO540AE2A			6263	ENG LT		97ZZZX4963

PILOT REPORTED HIGH MAG DROP ON LEFT MAG. RUN-UP INDICATED NEARLY COMPLETE MAG FAILURE. DURING DISASSEMBLY, A LARGE AMOUNT OF DUST WAS NOTED IN THE AREA OF THE CONTACT ASSEMBLY AND CONTACTS WERE BARELY OPENING. THE CAM WAS FOUND SEVERELY WORN. NO REASON FOR THE UNUSUAL WEAR WAS NOTED.

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6113		BEECH		HARTZL		BULKHEAD	CRACKED		2/1/96
		100BEECH		HCB3TN3		3064	PROP	1322	EY2R9600021
	INSPECTION FOUR	ND THE PROP BULKHE.	AD CRACKED						
6122		BEECH				DRIVE GEAR	CRACKED		11/6/97
LU4R		35BEECH			D210680				97ZZZX4876
	INSPECTION FOUR	ND GOVERNOR DRIVE	GEAR CRACKED. IN	DICATION STARTED	BETWEEN TEETH A	AND EXTENDED AROUND	CORNER.		
2562	2270G	BELL			NARCO	ELT	FAILED		11/19/97
HEEA	3610	206B3				ELT910	COCKPIT		HEEA0012108
	ELT INOPERATIVI	Е.							
2562	206LS	BELL			NARCO	ELT	FAILED		11/19/97
HEEA	51070	206L3				ELT910	COCKPIT		HEEA0012082
	ELT WOULD NOT	TURN OFF.							
3421	515KA	BELL				SYNCHRO	BROKEN		11/19/97
HEEA	51048	206L3			KA15A	071105304	COCKPIT		HEEA0012073
	CASE BROKEN.								
3422	515KA	BELL				FLUX VALVE	ERROR		11/19/97
HEEA	51048	206L3			KFM112	071105200	COCKPIT DIR SYS		HEEA0012071
	FLUX VALVE 30 D	DEG OFF.							
3425	515KA	BELL				HSI	INTERMITTENT		11/19/97
HEEA	51048	206L3			KI525A	066304607	COCKPIT		HEEA0012074
	INDICATOR HEAD	DING DATA INTERMITT	ENT. CRS DATA VO	LTAGE HIGH PRECES	SSES ON NORTH HE	ADING.			
3452	50182	BELL				TRANSPONDER	FAILED		11/19/97
HEEA	45242	206L1			KT76	066106200	COCKPIT ATC		HEEA0012110
	TRANSPONDER D	OES NOT SEND OUT A	CODE. (NO POWER O	OUT AND PULSE WID	TH OUT OF SPECS)				
2210	1202T	BELL				TARSYN	FAILED		11/19/97
HEEA	33112	412				2593996333	AUTO FLIGHT		HEEA0012104
	TARSYS UNIT FAI	ILED TEST 8.5 ON SST B	BENCH. TIME SINCE	REPAIR 0:00.					
2210	108X	BELL				CONTROL	DEFECTIVE		11/19/97
HEEA	33115	412				7000299901	AUTO PILOT		HEEA0012086
	AUTO PILOT CON	TROL PIN J2 PUSHED B	ACK.						
2210	22347	BELL				TARSYN	FAILED		11/19/97
HEEA	36005	412				2593996333	AUTO FLIGHT		HEEA0012103
	TARSYN TAKES 30	0 MINUTES TO SPOOL	UP.						
2211	1202T	BELL				FZ702 COMPUTER	FAILED		11/19/97
HEEA	33112	412				4033089901	AUTO FLT		HEEA0012068
	WITH FK DIRECTI	ON ENGAGED IN ILS A	PPROACH, AIRCRAF	T HAS A STEADY RO	CK AND ROLL. SEN	Γ			

DOMESTIC SERVICE	DIEDICIII TV DI	CDODT CHMMADV	COMPONENTS	(aont'd)
	SDIFFICULTERI	SEURI SUMMARI -	·COMECHENIA	(COIII a)

DOMESTI	C SERVICE DIFF	ICULTY REPORT	SUMMARY - CO	MPONENTS (cont	<u>'d)</u>		11/30/97	Го 12/6/97	ISSUE: 97-49 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2312	911PF	BOLKMS				TRANSCEIVER	WEAK		11/19/97
HEEA	S718	BO105S			RT406F	40001278501	COCKPIT		HEEA0012075
	-30DB WEAK RECE	EIVER SENSITIVITY AT	TURN ON.						
3452	911FL	BOLKMS				TRANSPONDER	FAILED		11/19/97
HEEA	S717	BO105S			KT76	066106200	COCKPIT ATC		HEEA0012111
		TERMITTENT, DROPPI TED PULSE WIDTH AN			INARY INSPECTION	AND FOUND RECEIVER	DROPPING OFF LINE. R	EPLACED CR	2202 MIXER DIODE.
3444	1546G	SKRSKY				TRANSCEIVER	FAILED		10/22/97
HEEA	760076	S76A				7001840903	COCKPIT		HEEA0011647
	TRANSCEIVER FAI	ILED 4.1 CHECK TEST (ON SST BENCH (LED	50 REMAINS ON).					
3450	22342	SKRSKY				CONTROL	FAILED		11/19/97
HEEA	760096	S76A				071121627	NR 1 NAV		HEEA0012113
	NR1 NAV FREQUE GOOD.	NCY DISPLAY GOES OI	FF AND ON. PERFORM	MED PRELIMINARY	INSPECTION AND FO	OUND DISPLAY DIM. REF	PLACED V101 PHOTOCE	ELL. REPAIRE	ED. BENCH CHECK
3450	22342	SKRSKY				CONTROL BOX	DEFECTIVE		11/19/97
HEEA	760096	S76A				071121004	COCKPIT		HEEA0012112
		OB MISSING. PERFOR! RED. BENCH CHECK C		NSPECTION AND FO	OUND KNOB MISSIN	G. REPLACED KNOB P/N	073-0554-04. ALSO REP	LACED V301	PHOTOCELL P/N 134-

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6110		AIRTRC		HARTZL		CLAMP	CRACKED		11/6/97
LU4R		AT502		HCB3TN3		13019S	PROPELLER		97ZZZX4948
	INSPECTION FOU	ND PROPELLER CLAMP	CRACKED AT BOLT	Γ HOLE.					
6114		BEECH		HARTZL		CUP	CRACKED		2/1/96
		100BEECH		HCB3TN3		5976	SPRING RETAINER	1322	EY2R9600022
	INSP FOUND PRO	P SPRING RETAINER CU	JP CRACKED						
6114		BEECH		HARTZL		CUP	CRACKED		2/1/96
		100BEECH		HCB3TN3		5976	SPRING RETAINER	2053	EY2R9600023
	INSP FOUND PRO	P SPRING RETAINER CU	JP CRACKED						
5114		BEECH		MCAULY		HUB	CRACKED		3/1/96
		V35		2A36C23		C6447C23	PROP		EY2R9600031
	HUB CRACKED IN	THREAD AREA							
6114		BEECH		MCAULY		HUB	CRACKED		4/1/96
		V35		2A36C23		C6447C23	PROP		EY2R9600045
	INSP FOUND HUB	CRACKED							
5114		BEECH		MCAULY		HUB	CRACKED		4/1/96
		36BEECH		2A36C23		C2835C23	PROP		EY2R9600044
	INSP FOUND HUB	CRACKED							
5112	110BA	ВЕЕСН			RAPCO	DEICE BOOT	FAILED	438	11/7/97
	LD279	65B80				RA129884	NR 1 PROPELLER		97ZZZX4957
	PROPELLER DEIC	E LEAD BREAK 12 INCH	HES FROM TERMINA	LS AFTER FOLLOWI	NG NEW INSTALLA	ΓΙΟΝ INSTRUCTIONS.			
6114		BEECH		MCAULY		HUB	CRACKED		4/1/96
		95B55		2AF34C55		D4883C55	NR 2 SOCKET		EY2R9600046
	HUB CRACKED IN	NR 2 SOCKET							
5114		BEECH		MCAULY		HUB	CRACKED		4/1/96
		95B55		2AF34C55		D4883C55	NR 2 SOCKET		EY2R9600047
	HUB CRACKED IN	NR 2 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		182E		D2A34C58		D5970C58	NR 1 SOCKET		EY2R9600034
	HUB CRACKED IN	NR 1 SOCKET							
5114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		188CESSNA		D2A34C98		C4716C98	NR 1 SOCKET		EY2R9600035
	HUB CRACKED IN	NR1 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		188CESSNA		D2A34C98		C4716C98	NR 1 SOCKET		EY2R9600036
	HUB CRACKED IN	NR 1 SOCKET							

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		188CESSNA		D2A34C98		C4716C98	NR 2 SOCKET		EY2R9600038
	HUB CRACKED IN	NR2 SOCKET, 7 O'CLO	CK POSITION						
5114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		188CESSNA		D2A34C98		C4716C98	NR 1 SOCKET		EY2R9600037
	HUB CRACKED IN	NR 1 SOCKET							
5114		CESSNA		MCAULY		HUB	CRACKED	800	8/5/97
	18802473T	A188B		D2A34C98		C98	NR 1 SOCKET		97ZZZX4873
****	PROPELLER IN FO OUTSIDE.	OR RESEAL AND A CRA	CK WAS FOUND IN	THE BLADE RETENTIO	ON THREADS OF NR	1 HUB SOCKET. THE CR	ACK HAD NOT YET GO	NE THROUG	H THE HUB TO THE
6114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		206CESSNA		D3A32C90		D5904C90	PROP		EY2R9600039
	INSP FOUND HUB	CRACKED							
5111	3674Y	CESSNA		MCAULY		BLADE	CRACKED		9/30/97
RC2R	21058174	210C		D2A34C49		S90A	RETAIN THREAD	886	97ZZZX4881
	CRACK FOUND D	URING PROPELLER DY	E PENETRANT INSPI	ECTION. CRACK PRE	SENT IN RETENTION	N THREAD.			
5114	3674Y	CESSNA		MCAULY		HUB	CRACKED		9/30/97
RC2R	21058174	210C		D2A34C49			MT FLANGE	886	97ZZZX4871
	PROPELLER INSPI FLANGE SURFACI		KS DURING DYE PE	NETRANT INSPECTIO	ON. CRACKS APPEA	R TO BEGIN FROM STUD I	HOLE AND PROGRESS (OVER THE EI	DGE TO HUB MOUNTING
6114									
		CESSNA		MCAULY		HUB	CRACKED		3/1/96
•		CESSNA 210K		MCAULY E2A34C73		HUB D5347C73	CRACKED NR 1 SOCKET		3/1/96 EY2R9600042
~ - .	HUB CRACKED IN	210K							
	HUB CRACKED IN	210K							
	HUB CRACKED IN	210K I NR 1 SOCKET		E2A34C73		D5347C73	NR 1 SOCKET		EY2R9600042
	HUB CRACKED IN	210K N NR 1 SOCKET CESSNA 210K		E2A34C73 MCAULY		D5347C73	NR 1 SOCKET CRACKED		EY2R9600042 3/1/96
5114		210K N NR 1 SOCKET CESSNA 210K		E2A34C73 MCAULY		D5347C73	NR 1 SOCKET CRACKED		EY2R9600042 3/1/96
5114		210K I NR 1 SOCKET CESSNA 210K I BLADE SOCKET		E2A34C73 MCAULY D3AF32C80		D5347C73 HUB D7037C80	NR 1 SOCKET CRACKED BLADE SOCKET		3/1/96 EY2R9600041
5114		210K N NR 1 SOCKET CESSNA 210K N BLADE SOCKET CESSNA 310Q		E2A34C73 MCAULY D3AF32C80 MCAULY		D5347C73 HUB D7037C80 HUB	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED		3/1/96 EY2R9600041 4/1/96
6114	HUB CRACKED IN	210K N NR 1 SOCKET CESSNA 210K N BLADE SOCKET CESSNA 310Q		E2A34C73 MCAULY D3AF32C80 MCAULY		D5347C73 HUB D7037C80 HUB	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED		3/1/96 EY2R9600041 4/1/96
6114	HUB CRACKED IN	210K NNR 1 SOCKET CESSNA 210K NBLADE SOCKET CESSNA 310Q CRACKED		MCAULY D3AF32C80 MCAULY 3AF32C87		D5347C73 HUB D7037C80 HUB D7015C87	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED PROP		3/1/96 EY2R9600041 4/1/96 EY2R9600048
5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO	210K I NR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C		MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN		D5347C73 HUB D7037C80 HUB D7015C87	CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET	ROM SERVIO	3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868
5114 5114 5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO	210K I NR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C DUND IN THE REAR OF I		MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN		D5347C73 HUB D7037C80 HUB D7015C87 HUB D4885C61	CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET	ROM SERVIO	3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868
5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO	210K INR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C DUND IN THE REAR OF I		E2A34C73 MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN 0 91-15-04 HAD BEEN 0		D5347C73 HUB D7037C80 HUB D7015C87 HUB D4885C61 DN. THE HUB WAS RED TA	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET AGGED AND RETIRED F	FROM SERVIO	EY2R9600042 3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868 CE. THE PROPELLER HAI
5114 5114 5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO	210K I NR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C DUND IN THE REAR OF IT 3 YEARS SINCE LAST OF IT CESSNA 340CESSNA		E2A34C73 MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN 191-15-04 HAD BEEN O		HUB D7037C80 HUB D7015C87 HUB D4885C61 N. THE HUB WAS RED TA	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET AGGED AND RETIRED F	FROM SERVIO	EY2R9600042 3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868 CE. THE PROPELLER HAI
5114 5114 5114 5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO BEEN IN SERVICE	210K I NR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C DUND IN THE REAR OF IT 3 YEARS SINCE LAST OF IT CESSNA 340CESSNA		E2A34C73 MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN 191-15-04 HAD BEEN O		HUB D7037C80 HUB D7015C87 HUB D4885C61 N. THE HUB WAS RED TA	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET AGGED AND RETIRED F	ROM SERVI	EY2R9600042 3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868 CE. THE PROPELLER HAI
5114 5114 5114	INSP FOUND HUB 2543S 3370843 A CRACK WAS FO BEEN IN SERVICE	210K INR 1 SOCKET CESSNA 210K I BLADE SOCKET CESSNA 310Q CRACKED CESSNA 337C DUND IN THE REAR OF IT 3 YEARS SINCE LAST OF IT CESSNA 340CESSNA I THREADS		E2A34C73 MCAULY D3AF32C80 MCAULY 3AF32C87 MCAULY D2AF34C61 2 DURING A DYE PEN 0 91-15-04 HAD BEEN O MCAULY 3AF32C87		D5347C73 HUB D7037C80 HUB D7015C87 HUB D4885C61 DN. THE HUB WAS RED TA HUB D7015C87	NR 1 SOCKET CRACKED BLADE SOCKET CRACKED PROP CRACKED NR 2 SOCKET AGGED AND RETIRED F CRACKED THREADS	ROM SERVIO	EY2R9600042 3/1/96 EY2R9600041 4/1/96 EY2R9600048 11/11/97 97ZZZX4868 CE. THE PROPELLER HAI 2/1/96 EY2R9600018

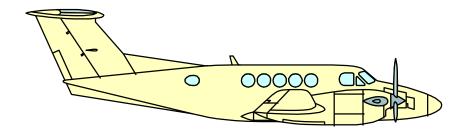
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		402CESSNA		3AF32C87		D7015C87	PROP		EY2R9600032
	HUB OUTER SURF	FACE CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		3/1/96
		414		3AF32C93		D7015C93	PROP		EY2R9600033
	PILOT BORE FOR	CRANKSHAFT CRACKE	ED						
5114		CESSNA		MCAULY		HUB	CRACKED		4/1/96
		421B		3AF34C92		D7019C92	PROP		EY2R9600050
	INSP FOUND PROF	P HUB CRACKED							
5110		GULSTM		HARTZL		FORK	CRACKED		2/1/96
		500S		HCC3YR		3252	PITCH CONTROL		EY2R9600030
	PC FORK CRACKE	ED IN RADIUS WHERE B	SLOCK SEATS						
5111		GULSTM		HARTZL		BLADE	CRACKED		3/1/96
		500RKWELL		HCA3VK2		8433A4	SHOULDER AREA		EY2R9600043
	BLADE SN B29226	, CRACKED IN SHOULE	DER AREA						
5110		MTSBSI		HARTZL		BRACKET	CRACKED		2/1/96
		MU2*		HCB3TN5		30283	PROP HIGH STOP		EY2R9600029
	INSP FOUND HIGH	H STOP BRACKET CRAC	CKED						
5110		MTSBSI		HARTZL		LINK ARM	CRACKED		2/1/96
		MU2*		HCB3TN5		1901	PROP		EY2R9600028
	INSP FOUND PROF	P LINK ARM CRACKED							
5111		MTSBSI		HARTZL		CLAMP	CRACKED		2/1/96
		MU2*		HCB3TN5		13019S	PROP		EY2R9600026
	INSP FOUND PROF	P CLAMP CRACKED							
5111	21CJ	MTSBSI		HARTZL		CLAMP	CRACKED	4642	10/29/97
	789SA	MU2B60		HCB4TN5		C1301	PROP NR 3 BLADE	2493	97ZZZX4893
	INSPECTION REPO	ORT CONDUCTED BY H	ARTZELL PROPELLE	ER INC., REVEALED C	CRACK IN PROPELLE	ER BLADE CLAMP. SUSPE	CT CAUSE OF CRACK D	UE TO FATIO	GUE.
5111	21CJ	MTSBSI		HARTZL		CLAMP	CRACKED	4642	10/29/97
	789SA	MU2B60		HCB4TN5		C1301	PROP NR 4 BLADE	2493	97ZZZX4894
****	INSPECTION REPO	ORT CONDUCTED BY H	ARTZELL PROPELLE	ER INC., REVEALED C	CRACK IN PROPELLE	ER BLADE CLAMP. SUSPE	CT CAUSE OF CRACK D	UE TO FATIO	GUE.
5114		MTSBSI		HARTZL		PILOT TUBE	CRACKED		2/1/96
		MU2*		HCB3TN5		1891	PROP		EY2R9600027
	PILOT TUBE HAS	LONGITUDINAL CRAC	KS						
5114		PIPER		HARTZL		HUB ARM	CRACKED		11/6/97
LU4R		PA23160		HC82VL2			PROPELLER	633	97ZZZX4877
	INSPECTION FOUL	ND CRACK ON OUTSID	E RADIUS OF NR 1 H	UB ARM APPROXIMA	ATELY 1 INCH LONG	j.			

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS (cont'd) 11/30/97 To 12/6/97 ISSUE: 97-49 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		PIPER		HARTZL		PILOT TUBE	CRACKED		2/1/96
		PA31T		HCB3TN3		18916	PROP		EY2R9600025
	INSP FOUND PROI	P PILOT TUBE CRACKE	D						
6114		PIPER		HARTZL		PILOT TUBE	CRACKED		2/1/96
		PA31T		HCB3TN3		18912A	PROP		EY2R9600024
	INSP FOUND PROI	P PILOT TUBE CRACKE	D						



INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2460		ВЕЕСН	PWA	MCAULY		DIODE	OPEN		9/8/94
		A100	PT6A28			70HF10	RT BUSS		CA940919009
						ON APPROACH GEAR WOU S ISOLATION DIODE FOU		ANUAL EXTE	NSION USED. INSP FOUND
5521		BEECH	PWA	HARTZL	BEECH	RIB	CRACKED	10966	9/12/94
		100BEECH	PT6A28			115610010193	ELEVATOR LH		CA940919004
	(CAN) LH ELEVAT	TOR INSP IAW 76-22-03.	NOSE RIB FOUND C	RACKED. REF. SI 799-	-133 REVISION II. BE	EECH KIT 10040051S INSTA	ALLED.		
2432		ВЕЕСН	PWA	HARTZL		BATTERY	MALFUNCTION		2/19/97
		200BEECH	PT6A41	HCB3TN3			BATTERY/CHARG	ER	AU970161
	(AUS) BATTERY C	CHARGE LIGHT ILLUM	INATED - BATTERY	REMOVED TO BATTE	ERY SHOP - INVESTI	GATION COULD FIND NO	FAULTS WITH THE BA	TTERY	
3242		BEECH	PWA			BRAKE DISC	FAILED		1/17/97
		B200C	PT6A42			101800213	BRAKE		AU970121
	(AUS) LH OUTBOA	ARD BRAKE ROTATING	G DISC BROKEN - ON	E SEGMENT CRACKE	ED AND FELL OUT C	AUSING MINOR DAMAGE	E TO WHEEL		
3242		BEECH	PWA			BRAKE DISC	FAILED		1/28/97
		B200C	PT6A42			101800213	RT OUTBRD		AU970122
	(AUS) RH OUTBOA	ARD BRAKE DISC BRO	KEN - BROKEN PIECH	E OF DISC DAMAGED	WHEEL ASSEMBLY	AND BRAKE BACKPLAT	E - WHEEL JAMMED		
3260		BEECH	PWA			WIRES	DAMAGED		9/8/94
		200BEECH	PT6A41				RH MLG		CA940919007
	(-)	TION ON DOWN SELEC THE PREVIOUS NIGHT,				MICROSWITCH HAD TOR PROVIDED IN LOOM.	N AWAY AT SOLDERE	D CONNECTION	ONS. LDG GEAR HAD
5610		BEECH	PWA			WINDSHIELD	CRACKED		2/5/97
		B200C	PT6A42			10138402516	FLIGHT COMPAR	Γ	AU970128
	(AUS) CO-PILOTS MANUFACTURER		LAMINATION CRACE	KED IN TOP RH CORN	ER -WINDSHIELD W	AS DELAMINATING PRIC	OR TO CRACKING (THE	DELAMINAT	ION WAS WITHIN
2460		BEECH	CONT	MCAULY		CONNECTOR	CORRODED		2/18/97
		A36	IO520B	3A32C76			DC POWER DISTR	IB	AU970127
	(AUS) MAIN ALTE	ERNATOR CABLE TO C	URRENT LIMITER AN	ND CURRENT LIMITE	R TO SHUNT AND M	IAIN AIRCRAFT DC BUSS	CONNECTIONS CORRO	DDED	
2432		BEECH	CONT	MCAULY		BATTERY	DISCHARGED		2/28/97
		D55	IO520C	3AF32C75			BATTERY/CHARG	ER	AU970170
	(AUS) BATTERY V	OLTAGE LOW - SUSPE	ECT CAUSED BY ALT	ERNATOR SWITCHES	BEING IN THE `OF	F' POSITION			
2910		BEECH				PIPE	CORRODED		2/27/97
		76				10558000121	HYDRAULIC, MAI	N	AU970175
	(AUS) HYDRAULI	C PIPE CORRODED - LC	OSS OF HYDRAULIC I	FLUID FROM PIN HOL	E LEAK				
3260		ВЕЕСН	PWA	HARTZL		WIRE	BROKEN		9/13/94
		99	PT6A20				DOWN LOCK NLG	ł	CA940923002
	(CAN) WIDE FOUR	ND DETACHED FROM T	D OF DOMN I OCK C	NOTES A					

INTERNATIONAL	SERVICE DIFFICI	JLTY REPORT 9	SUMMARY - A	AIRCRAFT (cont'd)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3213		BNORM	LYC		BNORM	RIVETS	SHEARED	1033	9/6/94
		BN2A	O540E4C5			NB40A1401	MLG SUPPORT TU	JBE	CA940919006
	(CAN) AFTER TAKEOFF PILOT NOTICED MAIN WHEELS AT 45 DEGREES ANGLE TO FUSELAGE. RIVETS SHEARED AT BOTTOM OF SUPPORT TUBE ASSEMBLY. THIS ALLOWED FITTING & PLUNGER TUBE ASSY TO DISLODGE FROM SUPPORT TUBE ASSY.								
6220		CAMAIR	ALLSN			BOLT	SHEARED		9/21/94
		480				SAP22658	MAIN ROTOR HEA	AD	CA940927010
	(CAN) THE BOLT WHICH HOLDS THE MAIN ROTOR DAMPER TO THE HEAD WAS FOUND SHEARED AT THE THREADS. THE NUT AND WASHER WERE MISSING. DURING A TORQUE CHEC OF THE REMAINING BOLTS, ONE MORE SHEARED AT THE SAME POINT.								
120		CAMAIR	ALLSN			BEARING	WORN	147	8/24/94
		480				MS141029	TAIL ROTOR		CA940920029
	(CAN) UNABLE TO STROBE TAIL ROTOR. TAIL ROTOR REMOVED FOR STATIC BALANCE AND FOUND TRUNNION WITH PLAY IN IT DUE TO A WORN BEARING								
5521		CESSNA		MCAULY		ADAPTER	CORRODED		2/6/97
		172M		1C160DTM		07341023	ELEV SPAR/RIB		AU970156
	(AUS) LH AND RH ELEVATOR TORQUE TUBE ADAPTERS CONTAINED SEVERE CORROSION BETWEEN ADAPTERS AND INBOARD RIBS - FLANGES ON ADAPTERS CRACKED DUE TO CORROSION								
2434		CESSNA		MCAULY	FORD	ALTERNATOR	FAILED	235	8/23/94
		182Q		C2A34C204		DOFF10300B	DC SYS		CA940921006
	(CAN) ALTERNATOR NOT CHARGING ELECTRICAL SYSTEM. THIS WAS NOTICED WHEN BATTERY STARTED TO DRAIN AND RADIOS WEAKENED. ALTERNATOR REPLACED. VOLTAGE REGULATOR HAD ALSO BEEN REPLACED BUT THIS DID NOT HELP. REASON FOR ALTERNATOR FAILURE NOT ASSESSED YET.								
7110		CESSNA	CONT	MCAULY		COWLING	DAMAGED		2/21/97
		182A	O470R	2A34C66			ENGINE COWLING	GS	AU970139
	(AUS) UNSECURED AND UNATTACHED UPPER AND LOWER ENGINE COWLINGS PICKED UP BY A GUST OF WIND AND BLOWN INTO PROPELLER ARC DURING ENGINE GROUND RUN - DAMAGE TO PROPELLER BLADES AND DESTRUCTION OF COWLS- ENGINE BULK STRIP TO BE CARRIED OUT								
230		CESSNA	CONT	MCAULY	CESSNA	DOWNLOCK	CONTAMINATED		1/24/97
		210L	IO520L	D3A32C88	210L		GEAR RETRACT		AU970157
	(AUS) LH MAIN LANDING GEAR DOWNLOCK HOOK CONTAMINATED WITH DIRT AND GRIT - AIRCRAFT OPERATES FROM DIRT STRIPS								
3231		CESSNA	CONT	MCAULY	CESSNA	NUT	LOOSE		2/16/97
		210L	IO520L	D3A34C404	210L		LANDING GEAR I	000	AU970124
	(AUS) NOSE LAND	ING GEAR DOOR ACTU	UATING ROD JAM N	UTS NOT TIGHTENED	- PERSONNEL/MAI	NTENANCE ERROR			
3260		CESSNA	CONT	MCAULY	CESSNA	SWITCH	STUCK		2/4/97
		210L	IO520L	D3A34C404	210L	513771	LANDING GEAR F	POS	AU970131
	(AUS) NOSE LANDING GEAR DOWNLOCK MICROSWITCH STICKING DUE TO DIRT AND OIL CONTAMINATION								
3710		CESSNA	CONT	MCAULY		HOSE	DETERIORATED		2/18/97
		210N	IO520L	D3A34C404	S2501SERIES	B906	VACUUM DISTRII	BUT	AU970173
	(AUS) VACUUM PU	JMP AIR HOSES DETER	RIORATED AND BREA	AKING UP INTERNAL	LY - FOUND DURING	G INSPECTION IAW CESSI	NA SEB 96-10		
3230		CESSNA	CONT		CESSNA	GEAR SWITCH	BENT		5/28/97
230									
230		337G	IO360G			15420291	SWITCH BRACKE	T	CA970722043

INTERNATIONAL	SERVICE DIFFICUL	TY REPORT SUMMARY:	- AIRCRAFT (cont'd)

TA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5610		CESSNA	CONT	MCAULY		WINDOW	FAILED		2/6/97
		340A	TSIO520N	3AF32C93		531126110	FLIGHT COMPART		AU970168
	(AUS) COPILOTS WINDOW FAILED - WINDOW BLEW OUT DURING FLIGHT								
2530		CESSNA	PWA			WATER HEATER	FAILED		9/14/94
		550	JT15D4			80037123	CABIN		CA940921401
	(CAN) CREW NOTICED FUMES & ODOUR AROUND WATER HEATER. SYSTEM SELECTED OFF. WATER HEATER REMOVED. PLASTIC LID MELTED AND TANK EMPTY.								
2910		CESSNA	PWA			VALVE	SEIZED		1/3/97
		550	JT15D4			61510	HYDRAULIC, MAIN		AU970135
	(AUS) HYDRAULIC OPEN CENTRE BYPASS VALVE INTERNAL FAULT - VALVE INTERMITTENTLY SEIZED IN THE OPEN POSITION								
40		DHAV	PWA			MOTOR	BURNT		9/8/94
		DHC6100	PT6A20			149786202	WIPER		CA940927002
	(CAN) SMOKE IN COCKPIT WINDSHIELD WIPER MOTOR BURNT OUT.								
10		EMB	PWA	HARTZL		HYDRAULIC SYSTEM	CONTAMINATED		2/10/97
		EMB110P1	PT6A34	HCB3TN3			HYDRAULIC, MAIN		AU970136
	(AUS) LANDING GEAR HYDRAULIC SYSTEM CONTAMINATED WITH AIR								
2752		PILATS				ACTUATOR	NOISY		2/14/97
		PC12				9787320302	TE FLAP ACTUATOR		AU970129
	(AUS) FLAP ACTUATOR NOISY - FLAP SHUDDERING ON EXTENSION								
10		PIPER	LYC		PIPER	BELLCRANK	CRACKED	6322	9/16/94
		PA12S	O290D2				AILERON		CA940926002
	(CAN) CRACK IN UPPER LEG OF PUSH-PULL ROD END ATTACH FITTING. CRACK FOUND WHILE APPLYING WITH AD 49-27-02. PART HAS SMALL RADIUS IN END OF FITTING. REPLACEMENT PART HAS A LARGE RADIUS.								
30		PIPER	LYC			CIRCUIT BREAKER	TRIPPED		8/23/94
		PA24250	O540A1A				LDG GEAR		CA940923008
	(CAN) WHEN LDG GEAR SELECTED DOWN, CB POPPED. MANUAL EXTENSION USED. NO OTHER FAULT FOUND. CB REPLACED								
22		PIPER	LYC	MCAULY		NUT	LOOSE		1/29/97
		PA25235	O540B2C5	1A200FA	VERNATHERM	75944	OIL TEMP VALVE		AU970112
	(AUS) THERMOST.	ATIC OIL COOLER BYP	ASS VALVE (VERNA	THERM) NUT LOOSE					
2810		PIPER	LYC			FUEL TANK	CONTAMINATED		9/2/94
		PA28180	O360A3A			6399814	DRAIN		CA940921008
	(CAN) LH TANK FUEL DRAIN NOT WORKING. INSP FOUND A SOFT RUBBERY SUBSTANCE ON DRAIN VALVE WHEN IT WAS REMOVED. IT APPEARED TO BE SOFT PRC & IT HAD COLLECTED IN SUMP AREA COVERING DRAIN & OUTLET FITTING & SCREEN. TANK HAD A FILM OF MATERIAL ALL OVER THE INSIDE WHICH HAD SOFTENED & RUN TO LOW POINT. TANK HAD APPARENTLY BEEN "SLOSHED" IN 1971 BUT MATERIAL NOT IDENTIFIED.								
3233		PIPER	CONT	HARTZL		ACTUATOR	FAILED		1/27/97
		PA28R201T	TSIO360F	BHCC2YF2		3579705	LANDING GEAR ACT	3350	AU970140
	(AUS) NOSE LAND	ING GEAR HYDRAULIO	C ACTUATOR FAILE	D AT FUSELAGE ATT	ACHMENT POINT				
60		PIPER		HARTZL		SWITCH	FAULTY		2/11/97
		PA31350		HCE3YR2		487862	LANDING GEAR POS		AU970123
	(AUS) LH MAIN LANDING GEAR SQUAT SWITCH FAULTY								

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3213		PIPER			PIPER	STRUT	CRACKED	715	7/11/94
		PA421000					MLG HOUSING		CA940919003
	(CAN) DURING SB	929 INSP CRACKS FOU	ND ON MLG HOUSI	NG. NEW P/N STRUT I	NSTALLED.				
3213		SOCATA	LYC	SNSNCH		TORQUE LINK	BROKEN		2/20/97
		TB9	O320D2A	74DM		TB1041033000	LT MLG LOWER		AU970165

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS</u>

11/30/97 - 12/6/97 ISSUE: 97-49 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
6210		AEROSP	ALLSN			BLADE	DEBONDED		2/6/97	
		AS355F1	250C20F			355A11002011	MAIN ROTOR BLADE	3	AU970145	
	(AUS) MAIN ROTO	OR BLADE INBOARD TE	RIM TAB DEBONDED	AND LOOSE ON BLA	ADE					
6420		AGUSTA			AGUSTA	PITCH LINK	FAULTY		1/27/97	
		A109C			A109C	1090130059	TAIL ROTOR HEAD		AU970126	
	` '	R PITCH LINK BEARING NTENANCE ERROR	GS NOT STAKED - BE	ARINGS MOVING IN	LINKS AND ONE BE	EARING DISLODGED - PITC	CH LINKS HAD BEEN FITT	ED NEW A	WEEK EARLIER -	
2435		BELL	ALLSN			STARTER GEN	FAULTY		1/1/97	
		206B	250C20B			150SG117Q	STARTER-GENERATO	584	AU970150	
	(AUS) STARTER/G	ENERATOR HAD EXCE	SSIVE ARMATURE B	ALANCE BAND GRIN	NDING TO ACHIEVE	BALANCE - PERSONNEL/N	MAINTENANCE ERROR - U	JNAPPROV	ED REPAIR	
3213		BELL	ALLSN			CROSSTUBE	CRACKED		9/8/94	
		206B3	250C20B		206050119	206050119005	SKID CROSSTUBES		CA940919008	
	FAILURE, CAUSIN		SEVER AT THE ATT			TALLY FROM RIVET HOLE ED WHILE TOWING THE A				
5310		BELL	PWA			FITTING	CRACKED		7/20/94	
		212	PT6T3			212030154001	CENTRE FUSELAGE		CA940921003	
	(CAN) FUSELAGE LIFT LINK FOUND CRACKED. AS PER SKETCH, CRACK APPEARS TO BE FOUND ON ONE SIDE OF THE FORK.									
5310		BELL	PWA			FITTING	CRACKED	355	9/12/94	
		212	PT6T3			212030154101	CENTRE FUSELAGE		CA940921002	
	(-)	LIFT LINK FOUND CRA ER BULLETIN 212-91-13:		CH CRACK FOUND C	ON ONE SIDE OF THE	E FORK. AME FOUND THE	WRONG PART NUMBER I	FOR THE B	OLT INSTALLED. BOLT	
2820		BOLKMS	ALLSN			FUEL VENT HOSE	PUNCTURED		9/4/94	
		BO105CBS	250C20B			10561111	UNDERFLOOR LH		CA940919201	
	FROM THE FUEL Y DOOR FRAME. TH	VENT LINE FOR THE SU IE PUNCTURE WAS CAU FOR THE ELECTRICAL F	JPPLY TANK. THE VI USED BY AN INCORR	ENT LINE WAS PUNC RECT LENGTH OF SCI	TURED ABOUT MID REW, USED TO MOU	ST FORWARD OF THE REA WAY, JUST UNDER THE F INT AN ELECTRICAL DUM A NEW VENT HOSE WAS	LOOR ON THE L/H SIDE O MY PLUG ON THE L/H FL	F THE AIR OOR. THE	CRAFT, AT THE REAR DUMMY PLUG IS USED	
6420		BOLKMS	ALLSN			BUSHING	CRACKED		9/7/94	
		BO105C	250C20B			2053172904	TR HUB		CA940923007	
	(CAN) WHILE CON CRACKED.	NDUCTING A 600 HOUR	INSPECTION THE A	ME REMOVED THE T	AIL ROTOR HUB AN	ND BLADE FOR INSPECTIO	ON AND FOUND THE OUT	ER BUSHIN	NG ON THE INNER SLEEVE	
6410		HUGHES	ALLSN			BLADE	CRACKED		2/19/97	
		369HS	250C20B			369A1613507	TAIL ROTOR BLADE	341	AU970163	
	(AUS) TAIL ROTO APPROXIMATELY		ED IN AREA JUST INI	BOARD OF THE LEAD	DING EDGE PROTEC	TIVE STRIP RUNNING CHO	ORDWISE TOWARDS THE	TRAILING	B EDGE - CRACK LENGTH	

<u>INTERNA</u>	TIONAL SERVICE	E DIFFICULTY REF	ORT SUMMARY	- HELICOPTERS	S (cont'd)		11/30/97 To	12/6/97 IS	SSUE: 97-49	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DAT OPER CON	_
6410		HUGHES	ALLSN			BLADE	CRACKED		2/19/97	
		369HS	250C20B			369A1613507	TAIL ROTOR BLADE	E 341	AU970120	
	` /	BLADE SKIN CRACKE GTH APPROXIMATELY		OF THE LEADING E	EDGE PROTECTION ST	TRIP RUNNING CHORDWI	SE FROM THE LEADIN	G EDGE TOW	ARDS THE TRA	AILING
2210		SKRSKY	TMECA			GYRO	INOPERATIVE		2/16/97	
		S76C	ARRIEL1S			7690001808103	AUTOPILOT SYSTEM	М	AU970133	
	(AUS) BOTH YAW R	ATE GYROS FAULTY								
2913		SNIAS	TMECA		AEROSP	COUPLING SLEEVE	FAILED	644	6/19/94	
		AS350B	ARRIEL1A		350A35013003	540	HYD PUMP		CA94092100	01
	AND REGREASED 4		AND WERE IN GOOD	O CONDITION AT TH	HE TIME. THE HYDRA	ANDED WITHOUT FURTH ULIC PUMP DID NOT HAV ES.				
7230		SNIAS	LYC		LYC	BEARING	FAILED	353	8/27/94	
		AS350D	LTS101600A2		410100016SB0	430136201	BEARING CAGE		CA94092100)7

(CAN) A SEQUENCE OF CHIP DETECTOR LIGHTS PROMPTED REMOVAL OF THE ENGINE AS PER FAA AD 88-14-01. SUBSEQUENT INSPECTION OF THE ENGINE REVEALED THE CAGE OF THE NR2 WINGER ROLLER BEARING TO HAVE FAILED 100% CIRCUMFERENTIALLY. A SERIES OF SIMILAR FAILURE MANDATED TEXTRON LYCOMING TO ISSUE SERVICE BULLETIN #A-LT101-

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

72-50-0163R1. SUBJECT BEARING HAS BEEN RETURNED TO MANUFACTURER.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		BEECH	PWA	HARTZL	PWA	CYLINDER	CRACKED	72	6/23/94
		TC45G	R985AN14B			47518	BARREL		CA940927008
	(CAN) ENGINE RU	NNING ROUGH SHORT	LY AFTER TAKEOFF	F AND AIRCRAFT RET	URNED TO BASE. IN	NSPECTION REVEAL A CRA	ACKED CYLINDER HEA	AD. CRACK W	AS AT THE THREADS
520		CESSNA	LYC		LYC	TAPPET	BROKEN	2200	7/29/94
		172P	O320D2J			72877	CAMSHAFT		CA940921402
	PERSISTED. SUCT		LARGE PIECES OF M	METAL WERE FOUND.	CYLINDERS WERE	R OR LOWER R.P.M. MANY REMOVED & FIVE CAM FO			
530		CESSNA	LYC		LYC	CYLINDER	CRACKED	1653	7/24/94
		172M	O320E2D			LW12419	EXHAUST PORT		CA940921403
8520	THROUGH THE CO	OOLING FINS FROM TH	E EXHAUST PORT. N	R2 & NR3 CYLINDER	S WERE CRACKED	DER WAS OBSERVED. INS IN THE SAME AREA. A CHI OPER LEANING & THERMA	ECK OF MAINTENANC	E RECORDS S	SHOW NR1 CYLINDER
520		CESSNA	CONT		CONT	CONNECTING ROD	FAILED		2/15/97
		182Q	O470U		O470U	646778	NR 1 CYL	434	AU970117
		BEHIND THE HARD FAC				RE IN AREA APPROXIMATE TIL FAILURE FROM OVERI			
530		CESSNA	CONT	MCAULY	CONT	CYLINDER	LEAKING	192	9/2/94
6550		A185E	IO520D	D2A34C209		C71A13646657CP	HEAD TO BARREL		CA940928101
	(CAN) BLACK TAR SUBSTANCE SEEPING FROM THREADED SECTION BETWEEN CYLINDER BARREL AND HEAD.								
	(CAN) BLACK TAR	R SUBSTANCE SEEPING							
314	(CAN) BLACK TAR	CESSNA	CONT	MCAULY		FUEL PUMP	SEIZED	290	6/28/97
7314	(CAN) BLACK TAR			MCAULY D3A34C402		FUEL PUMP 6468241	SEIZED ENG DRIVEN	290	6/28/97 CA970822005
314	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI E INCIDENT. A THOROU	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP	INSPECTION OF TH LING. IT WAS DETE		ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION (AFT HAD SAT IN A HE	IILIARY ELEC OF RUST AND ATED HANG	CA970822005 CTRIC PUMP AND CORROSION ON THE AR FOR 4 TO 5 MONTI
	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI E INCIDENT. A THOROU	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP	INSPECTION OF TH LING. IT WAS DETE	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION (AFT HAD SAT IN A HE	IILIARY ELEC OF RUST AND ATED HANG	CA970822005 CTRIC PUMP AND CORROSION ON THE AR FOR 4 TO 5 MONT
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	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE SUBSEQUENT FAI	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI EINCIDENT. A THOROU LURE. CESSNA U206G 5 CYLINDER CONNECT	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR UGH WINTERIZATIO CONT IO520F TING ROD BIG END E	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP N PROGRAM OR MOR MCAULY D3A34C404 BEARING FAILED DUE	INSPECTION OF TH LING. IT WAS DETE RE FREQUENT USAG CONT IO520F E TO LACK OF LUBR	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR GE OF THE AIRCRAFT PERF	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION (AFT HAD SAT IN A HE HAPS WOULD HAVE PE BROKEN RECIP ENG ED BY LOSS OF OIL OV	CILIARY ELEC OF RUST AND LATED HANG REVENTED TO 326 VERBOARD - 1	CA970822005 CTRIC PUMP AND CORROSION ON THE AR FOR 4 TO 5 MONT HE CORROSION AND 2/15/97 AU970158 LOSS OF OIL WAS
520	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE SUBSEQUENT FAI	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI EINCIDENT. A THOROU LURE. CESSNA U206G 5 CYLINDER CONNECT	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR UGH WINTERIZATIO CONT IO520F TING ROD BIG END E	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP N PROGRAM OR MOR MCAULY D3A34C404 BEARING FAILED DUE	INSPECTION OF TH LING. IT WAS DETE RE FREQUENT USAG CONT IO520F E TO LACK OF LUBR	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR GE OF THE AIRCRAFT PERF CONNECTING ROD 574572	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION (AFT HAD SAT IN A HE HAPS WOULD HAVE PE BROKEN RECIP ENG ED BY LOSS OF OIL OV	CILIARY ELEC OF RUST AND LATED HANG REVENTED TO 326 VERBOARD - 1	CA970822005 CTRIC PUMP AND CORROSION ON THE AR FOR 4 TO 5 MONTE HE CORROSION AND 2/15/97 AU970158 LOSS OF OIL WAS
520	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE SUBSEQUENT FAI	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THE EINCIDENT. A THOROU LURE. CESSNA U206G 5 CYLINDER CONNECT N AND HOLED EXHAU	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR UGH WINTERIZATIO CONT IO520F TING ROD BIG END E ST PUSHROD TUBE	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP N PROGRAM OR MOR MCAULY D3A34C404 BEARING FAILED DUE CAUSED BY A BENT I	INSPECTION OF TH LING. IT WAS DETE RE FREQUENT USAG CONT IO520F E TO LACK OF LUBR PUSHROD, DUE TO	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR GE OF THE AIRCRAFT PERF CONNECTING ROD 574572 EICATION/COOLING CAUSI STICKING VALVE - CONNE	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION O LAFT HAD SAT IN A HE HAPS WOULD HAVE PE BROKEN RECIP ENG ED BY LOSS OF OIL OV	CILIARY ELEC OF RUST AND EATED HANG REVENTED TO 326 VERBOARD - 1	CA970822005 CTRIC PUMP AND D CORROSION ON THE AR FOR 4 TO 5 MONT HE CORROSION AND 2/15/97 AU970158 LOSS OF OIL WAS E HOLED
520	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE SUBSEQUENT FAI (AUS) ENGINE NO THROUGH A WOR	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI E INCIDENT. A THOROU LURE. CESSNA U206G 5 CYLINDER CONNECT N AND HOLED EXHAU	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR UGH WINTERIZATIO CONT IO520F TING ROD BIG END E ST PUSHROD TUBE CONT IO520L	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP N PROGRAM OR MOR MCAULY D3A34C404 BEARING FAILED DUE CAUSED BY A BENT I MCAULY D3A32C88	INSPECTION OF TH LING. IT WAS DETE RE FREQUENT USAGE CONT IO520F E TO LACK OF LUBR PUSHROD, DUE TO CONT FUELPUMP	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR GE OF THE AIRCRAFT PERF CONNECTING ROD 574572 EICATION/COOLING CAUSI STICKING VALVE - CONNE DRIVE SHAFT 631683	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION O AFT HAD SAT IN A HE HAPS WOULD HAVE PF BROKEN RECIP ENG ED BY LOSS OF OIL OV ECTING ROD BROKEN WORN	CILIARY ELEC OF RUST AND EATED HANG REVENTED TO 326 VERBOARD - 1	CA970822005 CTRIC PUMP AND O CORROSION ON THE AR FOR 4 TO 5 MONT HE CORROSION AND 2/15/97 AU970158 LOSS OF OIL WAS E HOLED 2/13/97
314 520 314	(CAN) ENGINE LO LANDED IN OPEN FUEL PUMP BLAD PREVIOUS TO THE SUBSEQUENT FAI (AUS) ENGINE NO THROUGH A WOR	CESSNA U206F ST POWER IN CRUISE I WATER ON A LAKE. TI ES, WHICH SEIZED THI EINCIDENT. A THOROU LURE. CESSNA U206G 5 CYLINDER CONNECT N AND HOLED EXHAU CESSNA 210N	CONT IO520A DUE TO ENGINE DRI HE PUMP WAS REPL E PUMP AND SHEAR UGH WINTERIZATIO CONT IO520F TING ROD BIG END E ST PUSHROD TUBE CONT IO520L	D3A34C402 VEN FUEL PUMP FAII ACED AT A MARINA. ED THE DRIVE COUP N PROGRAM OR MOR MCAULY D3A34C404 BEARING FAILED DUE CAUSED BY A BENT I MCAULY D3A32C88	INSPECTION OF TH LING. IT WAS DETE RE FREQUENT USAGE CONT IO520F E TO LACK OF LUBR PUSHROD, DUE TO CONT FUELPUMP	6468241 DULD NOT MAINTAIN ALT E PUMP REVEALED A LAR RMINED THAT THE AIRCR GE OF THE AIRCRAFT PERF CONNECTING ROD 574572 EICATION/COOLING CAUSI STICKING VALVE - CONNE DRIVE SHAFT 631683	ENG DRIVEN ITUDE WITH THE AUX GE ACCUMULATION O AFT HAD SAT IN A HE HAPS WOULD HAVE PF BROKEN RECIP ENG ED BY LOSS OF OIL OV ECTING ROD BROKEN WORN	CILIARY ELEC OF RUST AND EATED HANG REVENTED TO 326 VERBOARD - 1	CA970822005 CTRIC PUMP AND O CORROSION ON THE AR FOR 4 TO 5 MONT HE CORROSION AND 2/15/97 AU970158 LOSS OF OIL WAS E HOLED 2/13/97

INTERNA	TIONAL SERVIC	E DIFFICULTY RE	PORT SUMMARY	Y - ENGINES (cor	nt'd)		11/30/97 T	o 12/6/97	ISSUE: 97-49	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DAT OPER COM	
8530		DHAV	PWA	HAMSTD	PWA	CYLINDER	CRACKED	75	9/14/94	
		DHC2MK1	R985AN14B	2D30		47518	NR1 CYLINDER		CA9409230	03
	(CAN) DURING TA	KEOFF RUN PILOT REF	ORTED ROUGH ENG	INE. TAKEOFF WAS	ABORTED. INSPECTI	ON REVEALED THE NR1 C	YLINDER WAS CRACE	KED AT THE	EXHAUST VALV	/E.
7310		DHAVXX	DHAVXX			FILTER	WORN		1/6/97	
		DH82AROBRT	GIPSYMAJOR			C1A	ENGINE FUEL DIST	,	AU970141	
	(AUS) AIRCRAFT F BLOCKING CONTA		TERIORATED ALLOW	ING FLOAT PARTIC	LES TO ENTER AND I	BLOCK CARBURETTOR MA	AIN JET - FUEL FILTER	WORN PRE	EVENTING FILTE	R FROM
8520		PIPER	LYC	MCAULY	LYC	TAPPET	SPALLED		1/29/97	
		PA25235	O540B2C5	1A200FA	CAMSHAFT	72877	CAM NR 5 LOBE		AU970114	
	(AUS) CAMSHAFT	NO5 LOBE AND ASSOC	CIATED TAPPET BODI	IES (20FF) SEVEREL	Y SPALLED					
8520		PIPER	LYC	HARTZL	LYC	SHAFT IDLER	SHEARED	1556	5/31/94	
		PA32300	O540E4B5	HCC2YK1		70384	CRANKCASE		CA9409230	01
	(CAN) METAL SHA	VINGS WERE FOUND	N SCREEN. ON TEAR	DOWN IT WAS FOUR	ND THE GOVERNOR I	DLER SHAFT HAD BROKE	N IN HALF.			
7230		SNIAS	LYC		LYC	BEARING	FAILED	353	8/27/94	,
		AS350D	LTS101600A2		410100016SB0	430136201	BEARING CAGE		CA9409210	07
	NR2 WINGER ROL		E FAILED 100% CIRC	UMFERENTIALLY. A		.D 88-14-01. SUBSEQUENT FAILURE MANDATED TE				
8540		SOCATA	LYC	HARTZL		PLUNGER	STICKING		2/25/97	

(AUS) ENGINE DRIVEN FUEL PUMP PLUNGER STICKING - INVESTIGATION FOUND THAT THE PLUNGER WAS JAMMED BY A SLIVER OF ALUMINIUM ALLOY APPROXIMATELY 5MM (0.196IN) IN LENGTH - METAL SLIVER APPEARS TO BE A SECTION OF THE REAR COVER RESULTING FROM THE MACHINING OF THE FUEL PUMP PLUNGER HOLE

TB10TOBAGO

O360A1A

HCC2YK1

AU970169

RECIP ENG

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS</u>

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2562		CESSNA		MCAULY		BATTERY	FAILED		3/3/97
		182P		2A34C203	E01	MN1300	EMERG LOCATOR		AU970167
	'	RIES DETERIORATED - WOULD NOT FUNCTIO				STICKY FLUID IN ELT BA	ATTERY BOX - PLATING	ON SOME B	SATTERY CONTACTS
6122		CESSNA	LYC	MCAULY	WOODWAR	GOVERNOR	FAILED	300	9/13/94
		TR182	O540L3C5	B2D34C217		A210761	PROP		CA940919011
	THE PROPELLER (GENERATE SUFFICI	ENT PRESSURE TO C	CHANGE TO COARSI	E PITCH. INSPECTION OF			CABLE FUNCTIONED, BUT DICATE ANY
2210		SKRSKY	TMECA			GYRO	INOPERATIVE		2/16/97
		S76C	ARRIEL1S			7690001808103	AUTOPILOT SYST	EM	AU970133
	(AUS) BOTH YAW	RATE GYROS FAULTY							
6113		SOCATA	LYC	HARTZL		SPINNER	CRACKED		3/4/97
		TB10TOBAGO	O360A1A	HCC2YK1		TB1058026001	PROP SPINNER		AU970172
	(AUS) PROPELLER	SPINNER CRACKED F	ROM ATTACHMENT	SCREW HOLES - INV	ESTIGATION FOUN	D THAT THE SPINNER WA	S NOT A FIRM FIT ON T	THE PROPEL	LER HUB
(End of IN	TERNATIONAL SEI	RVICE DIFFICULTY I	REPORT SUMMAR	Y - COMPONENTS)	<u> </u>			

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS</u>

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA	CONT	MCAULY		HUB	CRACKED		2/18/97
		210M	IO520L	D3A32C88		C88	NR 2 SOCKET	945	AU970130
	(AUS) PROPELLER STRIKE	HUB CRACKED IN NO	2 BLADE SOCKET AR	EA - CRACK LENGT	H APPROXIMATELY	6.35MM (0.25IN) - FOUND	DURING INSPECTION	IAW AD/PMC/	41 FOLLOWING WIRE

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)



SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

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GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE

DISTRICT				LS BY FAA A					
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 03	0	2	0	0	0	0	0	0	2
AL 05	0	0	0	0	0	0	1	0	1
AU S	0	10	9	0	3	6	4	5	37
CA	0	7	8	0	3	4	2	6	30
CE 03	0	0	0	0	0	0	0	1	1
CE 07	0	1	0	0	0	0	0	0	1
CE 09	0	0	0	0	0	0	1	0	1
EA 05	0	1	0	0	0	1	0	0	2
EA 07	0	2	0	0	0	0	0	0	2
EA 09	0	0	1	0	0	0	0	0	1
EA 13	0	1	0	0	0	0	0	0	1
EA 23	0	1	0	0	0	0	0	0	1
GL 03	0	0	1	0	0	30	0	0	31
GL 07	0	0	1	0	0	1	0	0	2
GL 09	0	0	0	0	0	0	1	0	1
GL 15	0	0	0	0	0	1	0	0	1
GL 19	0	0	0	0	0	0	1	1	2
NE 01	0	0	1	0	0	0	0	0	1
NE 03	0	0	0	0	0	2	0	0	2
NM 03	0	0	0	0	0	1	0	0	1
NM 11	0	0	0	0	0	0	1	0	1
SO 13	0	0	0	0	0	2	0	0	2
SO 17	0	0	1	0	0	3	0	0	4
SW 01	0	2	0	0	0	0	1	1	4
SW 03	0	19	10	0	3	34	50	1	117
SW 05	0	1	0	0	0	0	2	0	3

GENERAL	AVIATION ST	UMMARY INDEX by	DISTRICT OFFICE	(cont'd)
OLIVLIAL	AVIALIONS			(COIII U)

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DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
SW 13	0	0	0	0	0	0	0	1	1
SW 17	0	0	0	0	1	0	0	0	1
SW 99	0	0	0	0	0	1	1	3	5
WP 07	0	0	0	0	0	0	1	0	1
WP 25	0	0	1	0	0	1	0	0	2
TOTALS	0	47	33	0	10	87	66	19	262

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

11/30/97 To 12/6/97	ISSUE: 97-49	ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AEROSP	AS355F1	0	0	0	0	0	1	0	0	1 1
AGUSTA	A109C	0	0	0	0	0	1	0	0	1
AIRTRC	AT502	0	0	0	0	0	1	0	0	1
AMTRDF	KITFOX	0	0	0	0	0	0	0	1	1
ВЕЕСН	100BEECH	0	0	0	0	1	0	0	0	1
ВЕЕСН	100BEECH	0	0	0	0	0	3	0	0	3
ВЕЕСН	200BEECH	0	1	1	0	0	0	0	0	2
ВЕЕСН	35ВЕЕСН	0	0	0	0	0	1	0	0	1
ВЕЕСН	36ВЕЕСН	0	0	0	0	0	1	0	0	1
ВЕЕСН	65B80	0	0	0	0	0	1	0	0	1
BEECH	76	0	1	0	0	0	0	0	0	1
ВЕЕСН	95A55	0	0	0	0	0	0	1	0	1
BEECH	95B55	0	0	0	0	0	2	0	0	2
ВЕЕСН	99	0	0	1	0	0	0	0	0	1
BEECH	A100	0	1	0	0	0	0	0	0	1
BEECH	A200	0	1	0	0	0	0	0	0	1
BEECH	A36	0	1	0	0	0	0	0	0	1
BEECH	B200C	0	0	2	0	1	0	0	0	3
BEECH	B60	0	0	0	0	0	0	2	0	2
BEECH	C24R	0	1	0	0	0	0	0	0	1
BEECH	C45H	0	0	1	0	0	0	0	0	1
BEECH	C90A	0	0	1	0	0	0	0	0	1
BEECH	D55	0	1	0	0	0	0	0	0	1
ВЕЕСН	TC45G	0	0	0	0	0	0	0	1	1
ВЕЕСН	V35	0	0	0	0	0	2	0	0	2
BELL	205A1	0	0	0	0	0	0	1	0	1
BELL	206B	0	1	0	0	0	0	0	0	1

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)								11/30/97 To 12/6/97 ISSUE: 97-49 ZAC-327		
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
BELL	206B3	0	1	0	0	0	0	9	0	10
BELL	206B3	0	0	1	0	0	1	0	0	2
BELL	206L1	0	2	1	0	0	0	11	1	15
BELL	206L1	0	0	0	0	0	2	0	0	2
BELL	206L3	0	2	3	0	0	4	10	0	19
BELL	212	0	1	0	0	3	1	0	0	5
BELL	214ST	0	3	0	0	0	2	1	0	6
BELL	407	0	0	0	0	0	2	0	0	2
BELL	407	0	0	0	0	0	11	0	0	11
BELL	412	0	6	0	0	2	4	5	0	17
BELL	47G2A1	0	0	0	0	0	1	0	0	1
BNORM	BN2A	0	0	1	0	0	0	0	0	1
BOLKMS	BK117A3	0	0	1	0	0	0	0	0	1
BOLKMS	BO105C	0	0	0	0	0	1	0	0	1
BOLKMS	BO105CBS	0	1	0	0	0	0	0	0	1
BOLKMS	BO105S	0	2	1	0	0	5	8	0	16
BOLKMS	BO105S	0	0	0	0	0	2	0	0	2
CAMAIR	480	0	0	0	0	0	2	0	0	2
CESSNA	152	0	0	0	0	0	0	0	1	1
CESSNA	172M	0	0	0	0	1	0	0	1	2
CESSNA	172N	0	0	0	0	0	0	1	0	1
CESSNA	172P	0	0	0	0	0	0	0	1	1
CESSNA	172RG	0	0	0	0	0	0	0	1	1
CESSNA	182A	0	0	0	0	0	0	1	0	1
CESSNA	182E	0	0	0	0	0	1	0	0	1
CESSNA	182G	0	0	0	0	0	0	0	1	1
CESSNA	182L	0	0	0	0	0	0	1	0	1

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)									11/30/97 To 12/6/97 ISSUE: 97-49 ZAC-327		
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL	
CESSNA	182P	0	1	0	0	0	01-07	0	0	101AL	
CESSNA	182Q	0	1	0	0	0	0	0	0	1	
									1	1	
CESSNA	182Q	0	0	0	0	0	0	0	0	1	
CESSNA	185F	0	2	0	0	0	0	0	0	2	
CESSNA	188CESSNA	0	0	0	0	0	4	0	0	4	
CESSNA	206CESSNA	0	0	0	0	0	1	0	0	1	
CESSNA	210	0	0	0	0	0	0	0	0	1	
CESSNA	210C	0	0	0	0	0	2	0	0	2	
CESSNA	210K	0	0	0	0	0	2	0	0	2	
CESSNA	210L	0	0	3	0	0	0	0	0	3	
CESSNA	210M	0	0	0	0	0	1	0	0	1	
CESSNA	210N	0	0	1	0	0	0	1	0	2	
CESSNA	310N	0	0	1	0	0	0	0	0	1	
CESSNA	310Q	0	0	0	0	0	1	0	0	1	
CESSNA	337C	0	0	0	0	0	1	0	0	1	
CESSNA	337G	0	0	1	0	0	0	0	0	1	
CESSNA	340A	0	0	0	0	1	0	0	0	1	
CESSNA	340CESSNA	0	0	1	0	0	1	0	0	2	
CESSNA	401	0	1	0	0	0	0	0	0	1	
CESSNA	402C	0	0	1	0	0	0	0	0	1	
CESSNA	402CESSNA	0	0	0	0	0	2	0	0	2	
CESSNA	404CESSNA	0	0	0	0	0	0	0	1	1	
CESSNA	414	0	0	0	0	0	1	0	0	1	
CESSNA	414A	0	0	0	0	0	0	0	1	1	
CESSNA	421B	0	0	0	0	0	1	0	0	1	
CESSNA	550	0	1	0	0	0	0	0	0	1	
CESSNA	550	0	1	0	0	1	0	0	0	2	

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)								11/30/97 To 12/6/97 ISSUE: 97-49 ZAC-327		
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	A185E	0	0	0	0	0	0	0	1	1
CESSNA	A188B	0	0	0	0	0	1	0	0	1
CESSNA	T210N	0	1	0	0	0	0	0	0	1
CESSNA	TR182	0	0	0	0	0	1	0	0	1
CESSNA	TU206G	0	0	0	0	0	0	1	0	1
CESSNA	U206F	0	0	0	0	0	0	1	0	1
CESSNA	U206G	0	1	0	0	0	0	0	1	2
DHAV	DHC2MK1	0	0	0	0	0	0	0	1	1
DHAV	DHC6100	0	0	1	0	0	0	0	0	1
DHAVXX	DH82AROBRTSN	0	0	0	0	0	0	1	0	1
EMB	EMB110P1	0	1	0	0	0	0	0	0	1
GULSTM	500RKWELL	0	0	0	0	0	1	0	0	1
GULSTM	500S	0	0	0	0	0	1	0	0	1
HUGHES	369D	0	1	0	0	0	0	0	0	1
HUGHES	369HS	0	0	0	0	0	2	0	0	2
MTSBSI	MU2*	0	0	0	0	0	4	0	0	4
MTSBSI	MU2B60	0	0	0	0	0	2	0	0	2
PILATS	PC12	0	3	0	0	0	0	0	0	3
PIPER	PA12S	0	1	0	0	0	0	0	0	1
PIPER	PA18135	0	0	0	0	0	0	1	0	1
PIPER	PA23160	0	0	0	0	0	1	0	0	1
PIPER	PA24250	0	0	1	0	0	0	0	0	1
PIPER	PA25235	0	0	0	0	0	0	1	1	2
PIPER	PA28180	0	1	0	0	0	0	0	0	1
PIPER	PA28R201	0	0	0	0	0	0	1	0	1
PIPER	PA28R201T	0	0	1	0	0	0	0	0	1
PIPER	PA31350	0	1	2	0	0	0	0	1	4

GENERAL AV	TATION SUMMARY IN	11/30/97 To 12/6/97 ISSUE: 97-49 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL								80-85	TOTAL
-								71-79		
PIPER	PA31T	0	0	0	0	0	2	0	0	2
PIPER	PA32300	0	0	0	0	0	0	0	1	1
PIPER	PA421000	0	0	1	0	0	0	0	0	1
PIPER	PA46350P	0	0	0	0	0	0	1	0	1
SKRSKY	S61N	0	0	0	0	0	1	0	0	1
SKRSKY	S76A	0	2	3	0	0	1	6	0	12
SKRSKY	S76A	0	0	1	0	0	0	0	0	1
SKRSKY	S76C	0	1	0	0	0	0	0	0	1
SNIAS	AS350B	0	1	0	0	0	0	0	0	1
SNIAS	AS350D	0	0	0	0	0	0	1	0	1
SOCATA	TB10TOBAGO	0	0	0	0	0	1	0	1	2
SOCATA	TB9	0	0	1	0	0	0	0	0	1
	TOTALS	0	47	33	0	10	87	66	19	262
(End of AIR CAI	RRIER SUMMARY INDEX	by OPERATOR F	Report)							

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND I	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND M	ARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
12 02/(1/0//10	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 - FUEL OFFICIONO	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVICE	NG 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	ATION 2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBR	2250	AERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/N	IOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POW ER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIN	2300	COMMUNICATIONS SYSTEM	<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN		HF COMMUNICATION SYSTEM	0.5.0.0	CARIN FOLURAENT/FURNICUINGS
2100 AIR CONDITIONING	S SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2212	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
2130 CABIN PRESSURE	2240	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
2133 PRESSURE REGUL	2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	<u> </u>	<u>LEEGIRIOAL I OW ER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S	YSTEM 2400	ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	JRE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
2161 CABIN TEM PERATU			2565	ESCAPE SLIDE
2162 CABIN TEMPERATI		AC GENERATOR-ALTERNATOR	2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERATU		AC INVERTER	2571	BATTERY BOX STRUCTURE
	7KE 0EN00K ==		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	<u>29 l</u>	HYDRAULIC POWER	32 L	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30	ICE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>.IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31</u>	INSTRUMENTS	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	<u>IAVIGATION</u>
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DATA SYSTEM	3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM		5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYSTEM	<u>38 WATER/WASTE</u>	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN INDICATOR	3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SYSTEM	3820 WASH WATER SYSTEM	5301 AERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM)	5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT. COMPUTER	5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM		5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTEM	49 AIRBORNE AUXILIARY POWER	5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINING SYSTEM	ACCO AIRRORNE ARII CVCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AIRBORNE APU SYSTEM 4910 APU COWLING/CONTAINMENT	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4910 APU COW LING/CONTAINMENT 4920 APU CORE ENGINE	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4930 APU ENGINE FUEL & CONTROL	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4940 APU START/IGNITION SYSTEM	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SYSTEM (TCAS)	4950 APU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4960 APU CONTROLS	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERMINING SYSTEM	4970 APU INDICATING SYSTEM	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4980 APU EXHAUST SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM	4990 APU OIL SYSTEM	5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4330 ALCOIL STOTEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCTURES	5345 FUSELAGE EQUIPMENT ATTACH FITTINGS
3455 ADF SYSTEM	5400 CTANDADD DDACTICEC/CTDUCTUDEC	5346 POWERPLANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURES 5101 AIRCRAFT STRUCTURES	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES 5102 BALLOON REPORTS	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING SYSTEM	5102 BALLOON REPORTS	54 NACELLES/PYLONS
35 OXYGEN	52 DOORS	5400 NACELLE/PYLON STRUCTURE
	<u></u>	5410 MAIN FRAME (ON NACELLE/PYLON)
3500 OXYGEN SYSTEM	5200 DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5412 BULKHEAD/FIREWALL (NAC/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5413 LONGERON/STRINGER (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5414 PLATE SKIN (NAC/PYLONS)
36 PNEUMATIC	5240 SERVICE DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
3600 PNEUMATIC SYSTEM	5241 GALLEY DOORS	,
3610 PNEUMATIC DISTRIBUTION SYSTEM	5242 E/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3620 PNEUMATIC DISTRIBUTION STSTEM 3620 PNEUMATIC INDICATING SYSTEM	5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3020 THEOMATIC INDICATING CICIEM	5244 ACCESSORY COMPARTMENT DOORS	5510 HORIZONTAL STABILIZER STRUCTURE
	5245 AIR CONDITIONING COMPART. DOORS	5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTURE	6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING		7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
56 WINDOWS	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS		7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
3040 INSPECTION WINDOWS	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
57 WINGS	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5700 WING STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	7270 TORBINE ENGINE BIT AGG GEOTION
5710 WING MAIN FRAME STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5711 WING SPAR STRUCTURE		7300 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	<u>64 TAIL ROTOR</u>	7310 ENGINE FUEL DISTRIBUTION
5713 WING LONGERON/STRINGER	6400 TAIL ROTOR SYSTEM	7310 ENGINE FUEL DISTRIBUTION 7311 ENGINE FUEL-OIL COOLER
5714 WING CENTER BOX	6410 TAIL ROTOR BLADE	7311 ENGINE FUEL-OIL COOLER 7312 FUEL HEATER
5720 WING MISCELLANEOUS STRUCTURE	6420 TAIL ROTOR BEADE	7312 FUEL INJECTOR NOZZLE
5730 WING PLATES/SKINS	6440 TAIL ROTOR INDICATING SYSTEM	
5740 WING ATTACH FITTINGS	0440 TAIL ROTOR INDICATING STSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.